

HOPE'S

HOT-DIP GALVANIZED

STANDARD WINDOWS

LIST NO. 230

Revised March 1949

Standard · HOPE'S WI

represent the highest interpretation of E-

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ALL PREVIOUS LISTS CANCELLED
Revised March 1949

INDOWS · Galvanized

tish Standard Specification No. 990: 1945

Foreword

This catalogue contains the complete post-war range of Standard Metal Windows and Doors for domestic use, as set out in B.S.S. 990: 1945. Concentration on this limited range has enabled us to adopt stiffer sections than before (see pages 5 and 7), and improved fittings without any corresponding increase in cost.

Certain types in our pre-war range, for which the demand was small, have been dropped; they can still be made to meet customers' special requirements, but at extra cost.

General

HOPE'S Standard Metal Windows and Doors are made of British rolled steel, cold straightened before fabrication. All windows and doors open outwards (except Larder Windows, types NLI, HLI and LI), and are prepared for glazing from outside. Holes are drilled for curtain rail fittings at head of every window (see page 15).

Fittings are of bronze or aluminium and are interchangeable; all our side hung casements are now hung on a new type of Friction Cleaning Hinge which eliminates any form of stay and leaves the cill clear of obstruction.

For architect-designed houses we recommend that fittings be polished and toned at extra cost; chromium-plated fittings can also be supplied for kitchens, sculleries, bathrooms, etc., at a small extra.

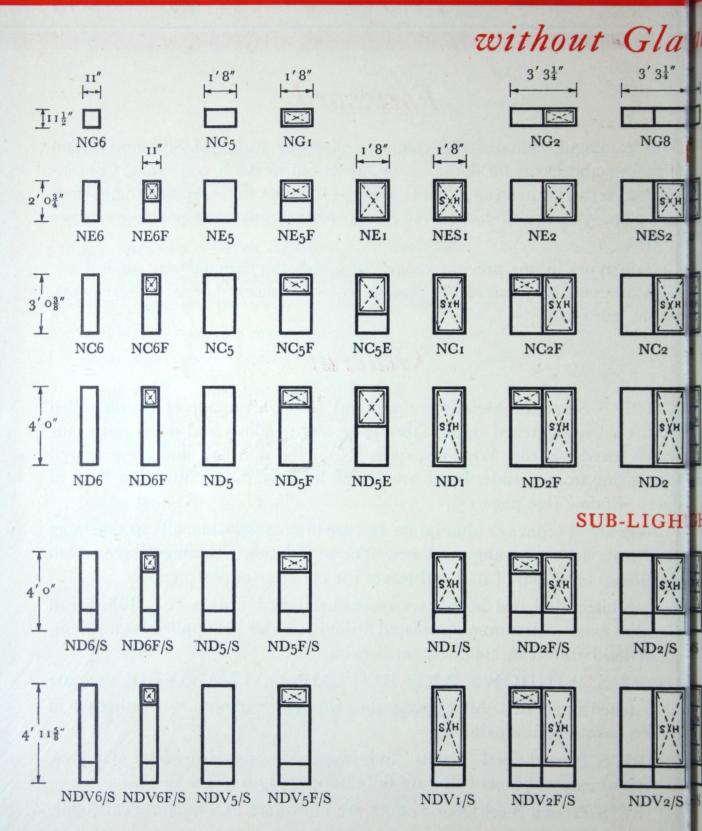
HOPE'S WINDOWS ARE HOT-DIP GALVANIZED, and are despatched unpainted. After fixing, they should be allowed to weather for at least a month before painting.

HOPE'S Pressed Steel 'Cavity' Sub-frames for Standard Metal Windows, as well as external Steel Cills, are fully illustrated on pages 16-18.

HOPE'S Pressed Steel Door Frames are illustrated in a separate catalogue, List No. 231.

HOPE'S Standard Metal Windows can now be supplied complete in Wood Surrounds.

² Standard · HOPE'S W



WHEN ORDERING:

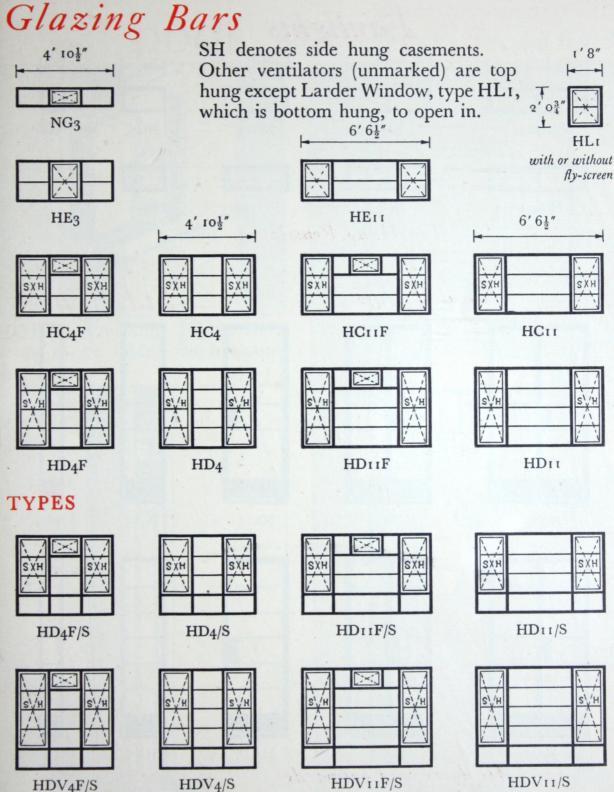
Composite units are obtained by coupling standard units. Mullions and transoms are indicated by vertical and horizontal strokes thus, as seen from inside:

State 'Hand' of Side Hung Casements and Doors. (The 'hand' is the hinged side looking from inside.)

Give full consigning address.

NDOWS Galvanized

Glazing Bars



HE2 HD2 HD4

HDV₄F/S

THI

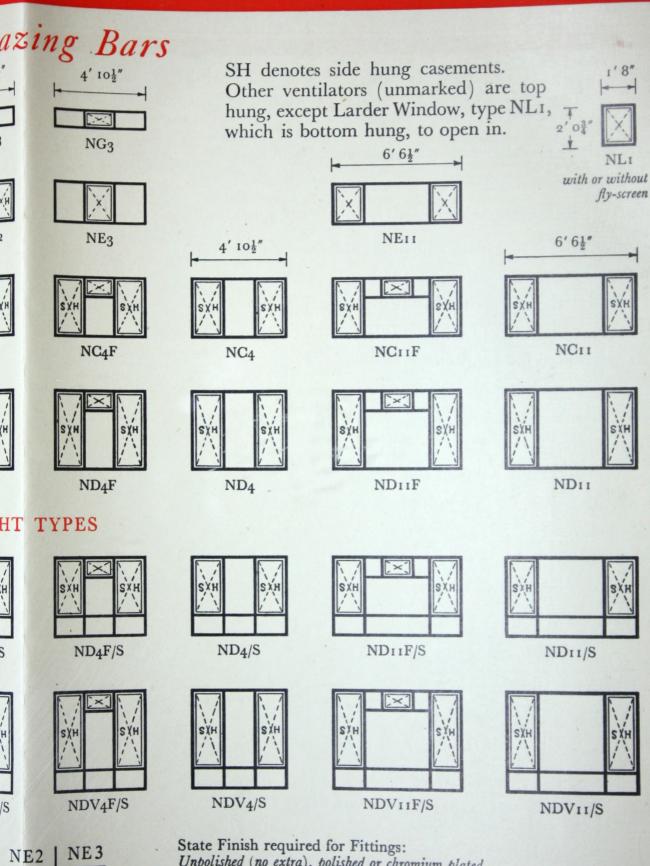
State Finish required for Fittings: Unpolished (no extra), polished or chromium plated.

State if weather bars are required at head.

State whether fixing to Brick, Wood, or Concrete.

State whether Putty and Mastic are required.

INDOWS · Galvanized



NE2 | NE3 ND2 | ND4

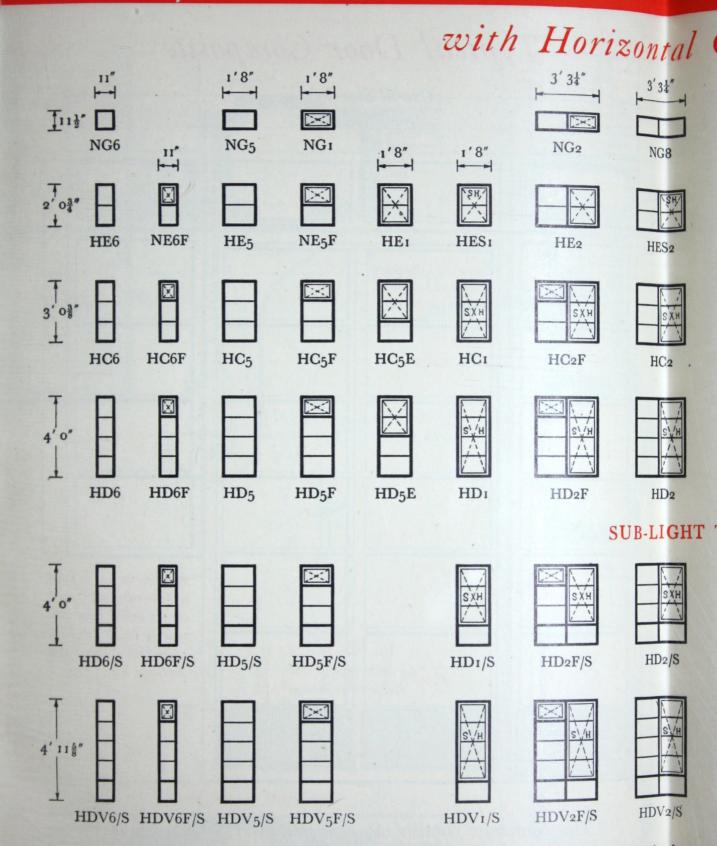
State Finish required for Fittings:
Unpolished (no extra), polished or chromium plated.

State if weather bars are required at head.

State whether fixing to Brick, Wood, or Concrete.

State whether Putty and Mastic are required.

Standard · HOPE'S WIN



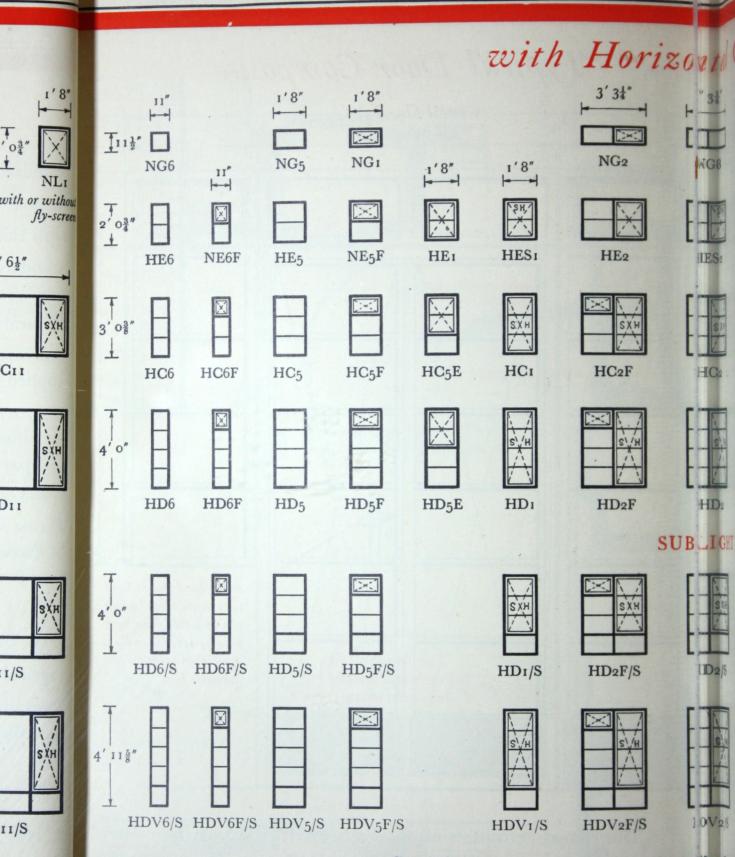
WHEN ORDERING:

Composite units are obtained by coupling standard units. Mullions and transoms are indicated by vertical and horizontal strokes thus, as seen from inside: HD2

State 'Hand' of Side Hung Casements and Doors. (The 'hand' is the hinged side looking from inside.)

Give full consigning address.

zed Standard · HOPE'S W



WHEN ORDERING:

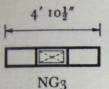
Composite units are obtained by coupling sta Hard units. Mullions and transoms are indicated by vertical and horizontal strokes thus, as seen from uside:

State 'Hand' of Side Hung Casements and (The 'hand' is the hinged side looking from inside.)

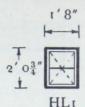
Give full consigning address.

INDOWS Galvanized

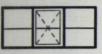
Glazing Bars



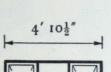
SH denotes side hung casements. Other ventilators (unmarked) are top hung except Larder Window, type HLI, which is bottom hung, to open in. 6' 61"

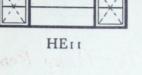


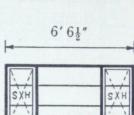
with or without fly-screen



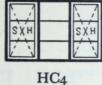
HE3

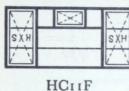


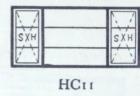




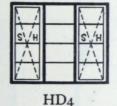


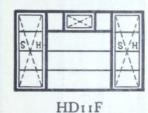


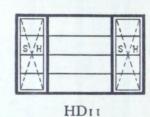




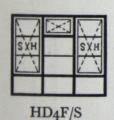
HD₄F

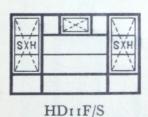


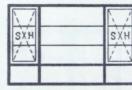


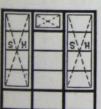


TYPES



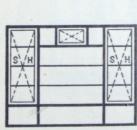






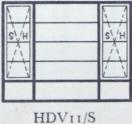
HDV₄F/S HDV₄/S





HDV11F/S





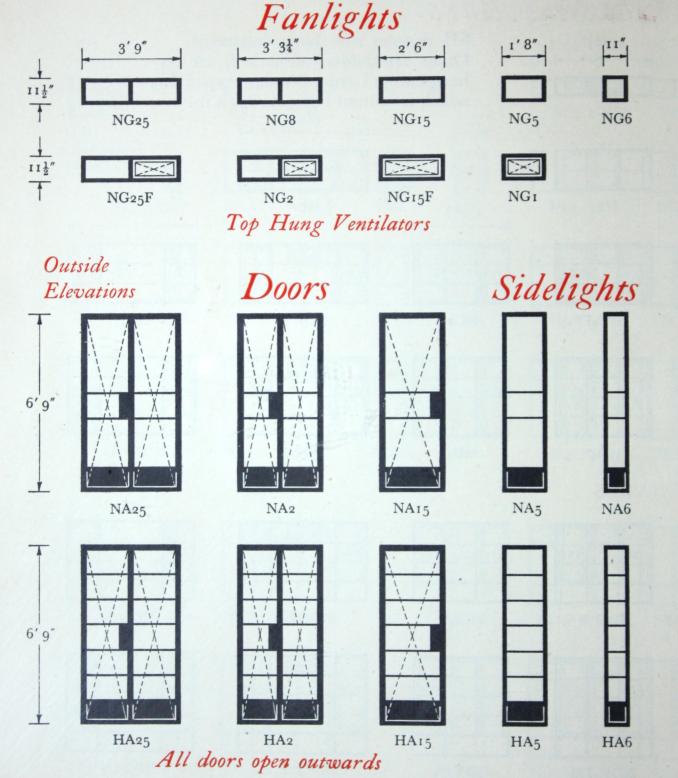
HE2 HE3 HD2 HD4 State Finish required for Fittings: Unpolished (no extra), polished or chromium plated.

State if weather bars are required at head.

State whether fixing to Brick, Wood, or Concrete.

State whether Putty and Mastic are required.

4 Standard · HOPE'S W



WHEN ORDERING:

Give full consigning address

State 'hand' of single doors NA15 and HA15

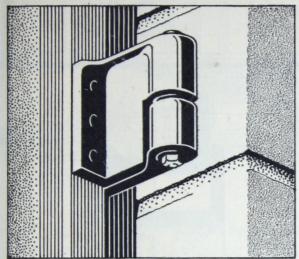
(the 'hand' is the hinged side looking from inside).

State finish required for fittings: unpolished (no extra), polished or chromium plated.

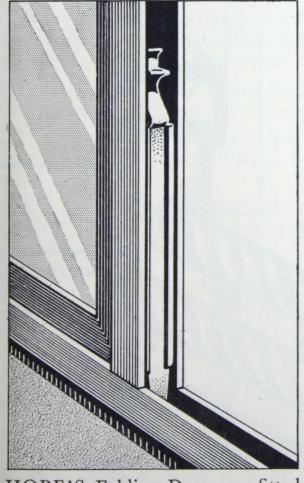
State if weather bars are required at head.
State whether fixing to Brick, Wood or Concrete.
State whether Putty and Mastic are required.

DOOR FITTINGS

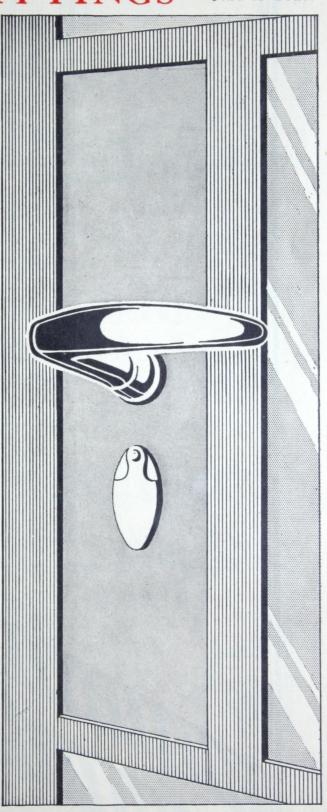
Not to Scale



HOPE'S Projecting Hinges allow doors to be folded back against the wall.



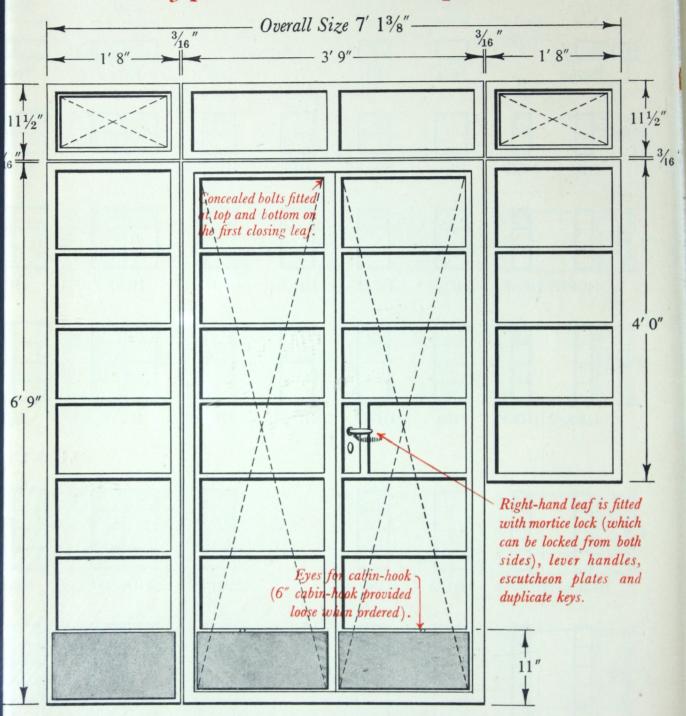
HOPE'S Folding Doors are fitted with concealed bolts at top and bottom on the first closing leaf.



All Standard Doors are fitted with a mortice lock and lever handle and can be locked from both sides.

NDOWS · Galvanized

Typical Door Composite



This composite consists of: Fanlights: NG1, NG25, NG1.

Sidelights: HA5, HD5.

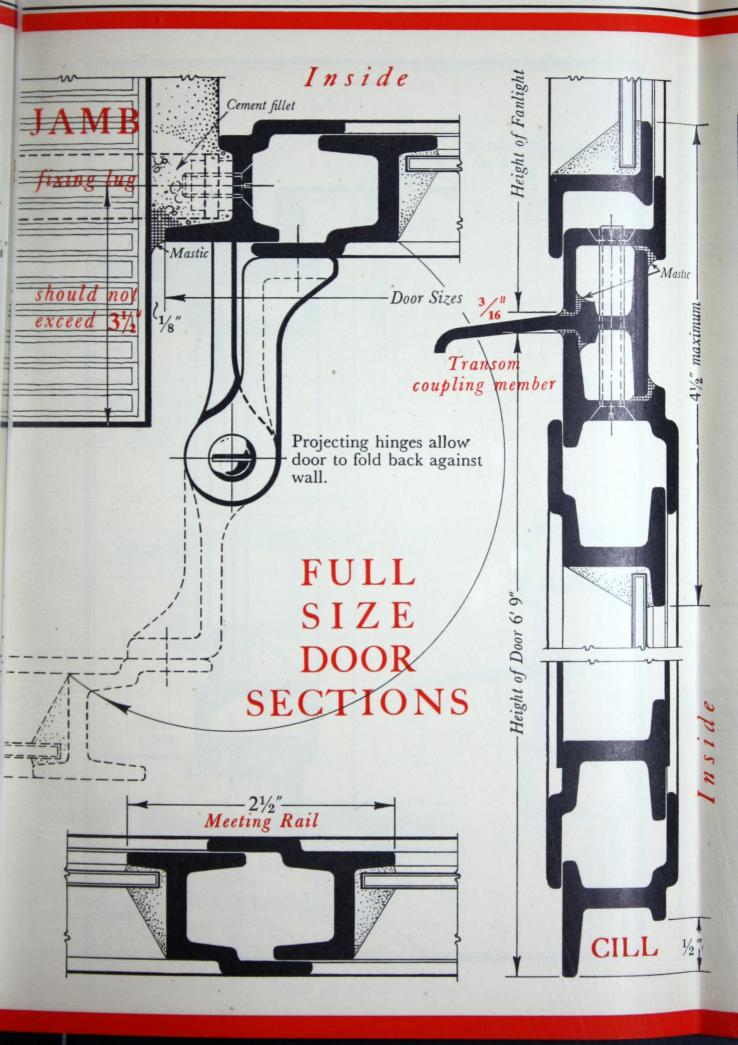
Door: HA25.

and should be ordered thus: NG1 | NG25 | NG1

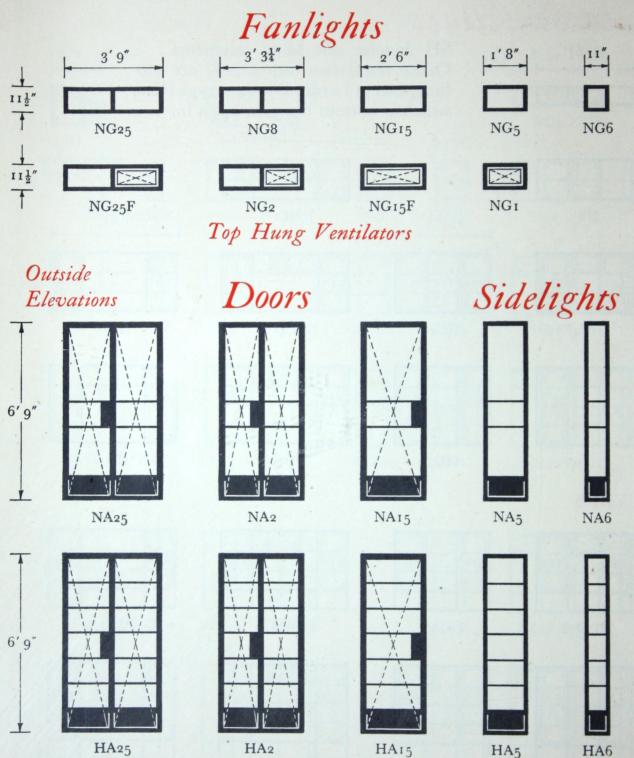
NGI NG25 NGI as seen from

A5 HA25 HD5 inside

Standard · HOPE'S WIN



4 Standard · HOPE'S W



All doors open outwards

WHEN ORDERING:

Give full consigning address

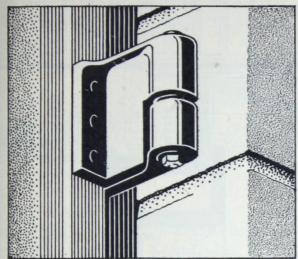
State 'hand' of single doors NA15 and HA15 (the 'hand' is the hinged side looking from inside).

State finish required for fittings: unpolished (no extra), polished or chromium plated.

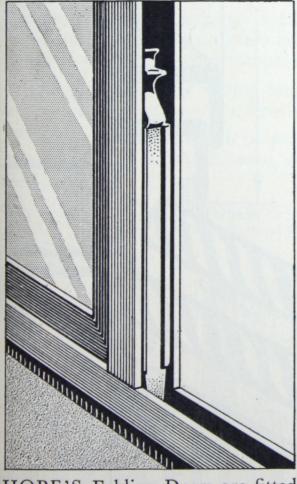
State if weather bars are required at head. State whether fixing to Brick, Wood or Concrete. State whether Putty and Mastic are required.

DOOR FITTINGS

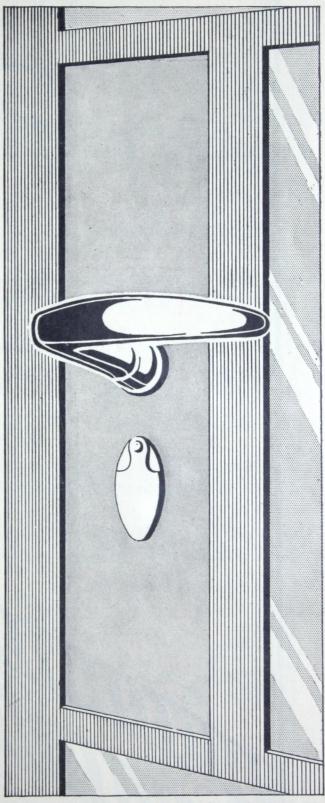
Not to Scale



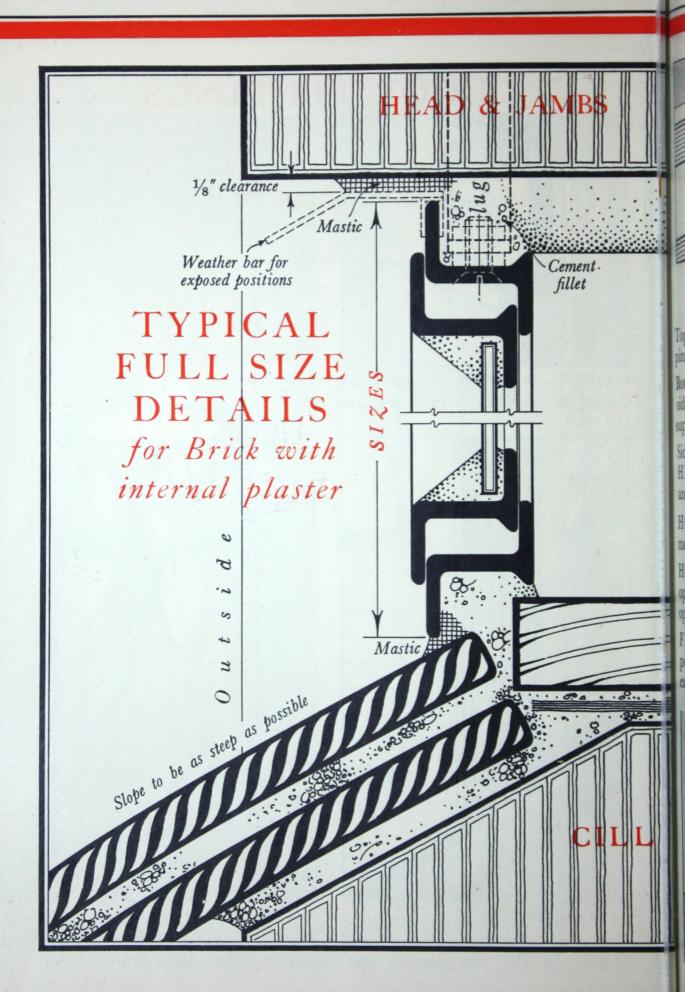
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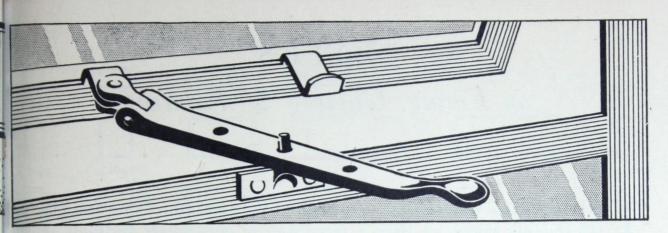


HOPE'S Folding Doors are fitted bottom on the first closing leaf.



All Standard Doors are fitted with with concealed bolts at top and a mortice lock and lever handle and can be locked from both sides.





WINDOW FITTINGS

Top Hung Ventilators are hung on galvanized steel hinges with sherardized pins and fitted with a bronze or aluminium peg stay.

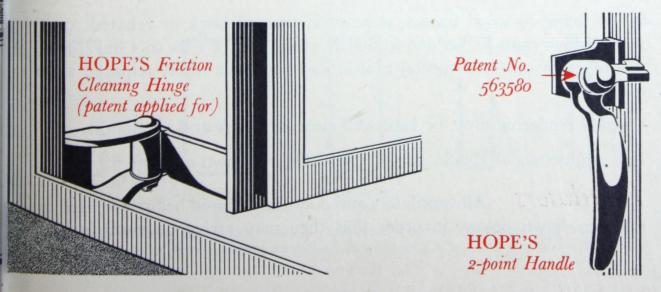
Bottom Hung Ventilators (larder windows) are fitted with spring catch and side arm which may be lifted to release ventilators for cleaning. Fly-screens are supplied on request.

Side Hung Casements are hung on galvanized FRICTION CLEANING HINGES which hold the casement firmly in any position without the need for any form of stay and also allow ample room for cleaning the glass from inside.

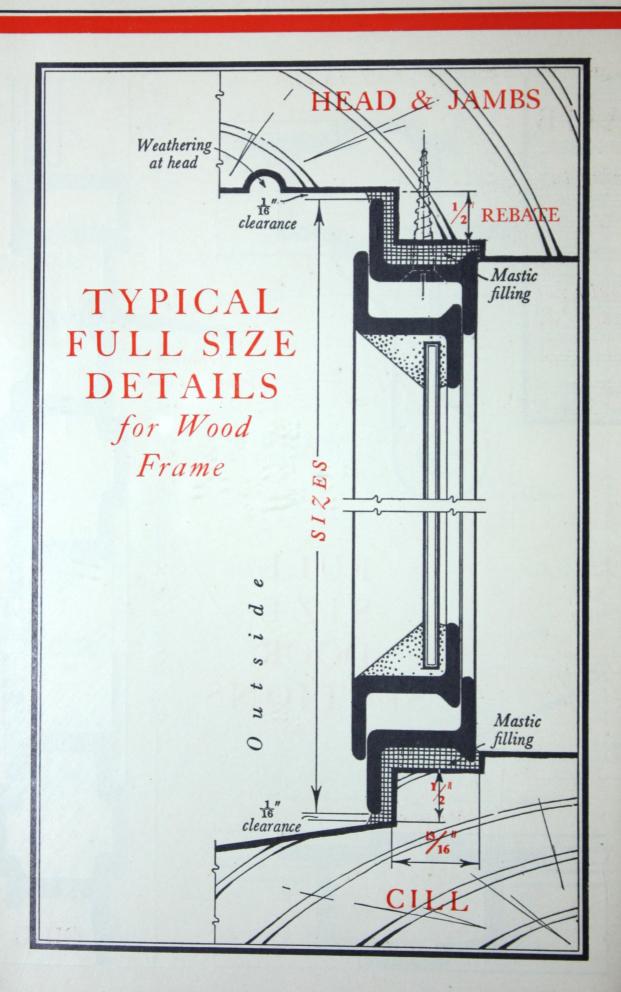
HOPE'S Non-projecting Sliding Stay can still be fitted to side hung casements at a small extra cost, if ordered specially.

HOPE'S 2-point handle with patent friction mounting holds the casement open one inch for a little ventilation, works smoothly and does not drop when open.

FINISH: Handles and stays, unless otherwise ordered, are supplied unpolished. Polished or chromium-plated fittings supplied on request at small extra cost.



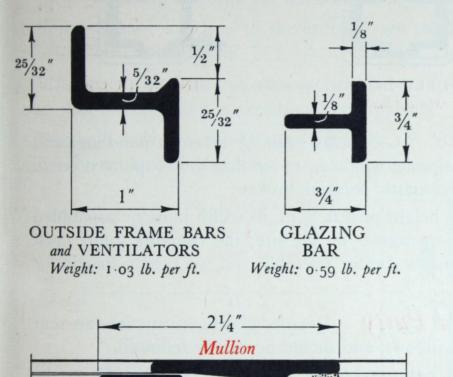
INDOWS · Galvanized

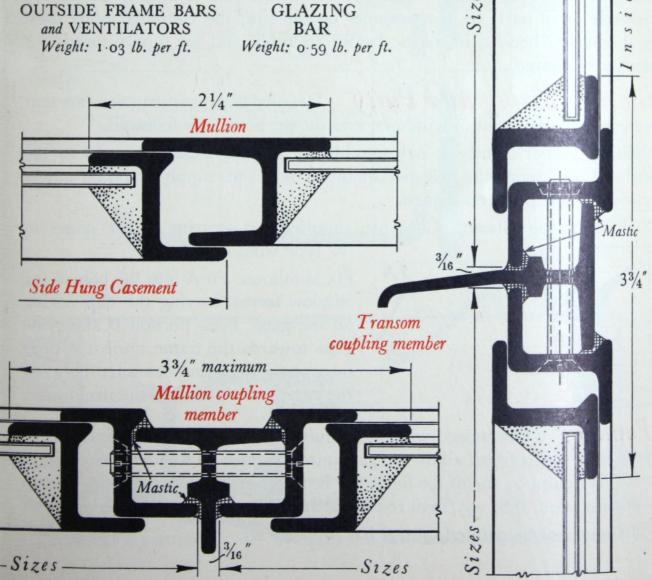


Standard · HOPE'S WIN

IMPROVED SECTIONS and Coupling Details

FULL SIZE





See page 9 for Full Size Detail for Larder Window

To pin

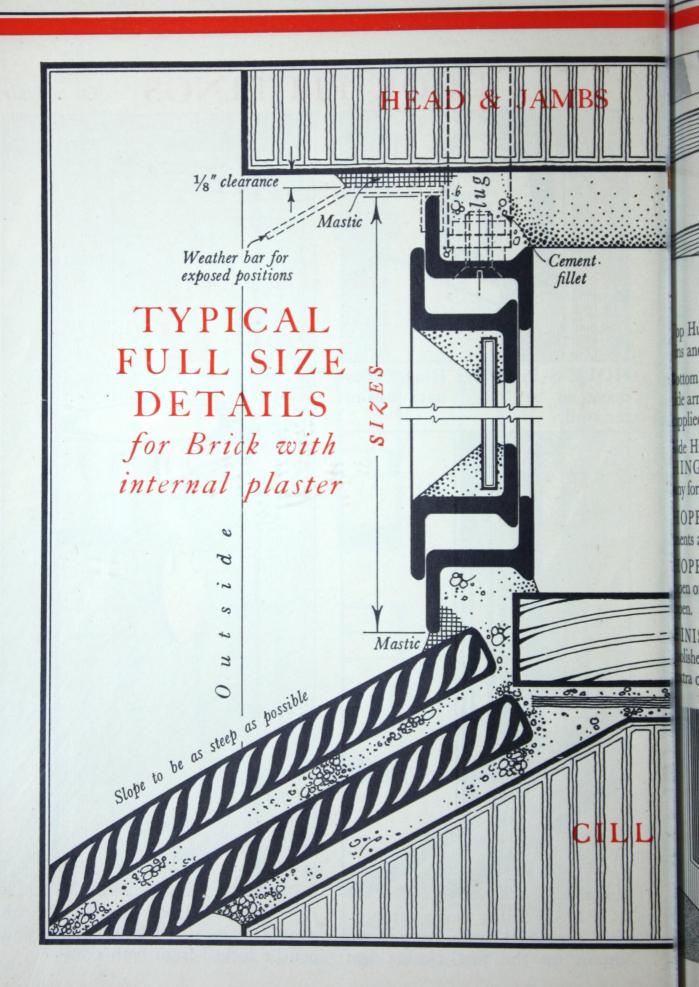
Section through lower

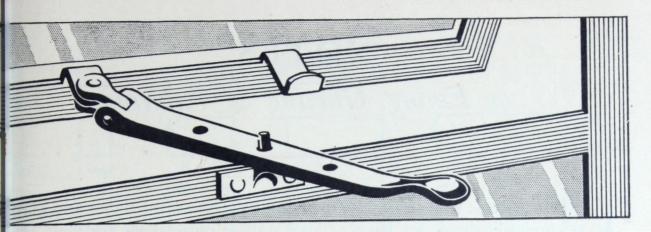
Rail of Top Hung in 'F' types

> sid sup Sid HI

H(ope

FI polext





WINDOW FITTINGS

p Hung Ventilators are hung on galvanized steel hinges with sherardized s and fitted with a bronze or aluminium peg stay.

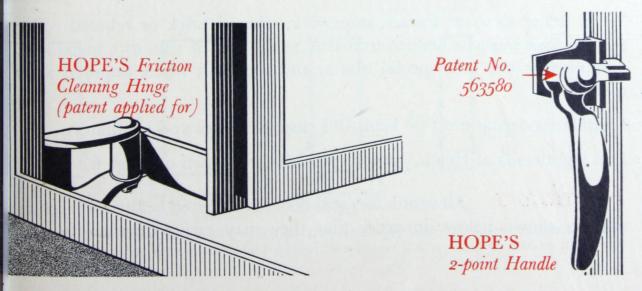
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NISH: Handles and stays, unless otherwise ordered, are supplied unlished. Polished or chromium-plated fittings supplied on request at small ra cost.



NOTES

on Fixing, Glazing & Painting

HE best made windows may prove unsatisfactory if the fixing and glazing is carelessly done; we have a large staff of outworkers and will gladly carry out this work in any part of the country.

Where customers prefer to fix and glaze with their own labour we would respectfully urge them to insist on the following precautions.

Handling and Storage Galvanized Windows may be stored in the open without detriment; they must, however, be kept clean and free from mud, plaster or cement. They should be stacked vertically on edge on level battens, with hinges and fittings clear of one another.

Fixing Whenever possible fixing of windows should be postponed until rougher trades have left the site. If they are to be built in, particular care must be taken to see that they are not damaged by scaffold boards placed on the cills or on the glazing bars.

Windows must be secured dead plumb and level in the openings and free from twist. Special care should be taken with metal doors.

When fixing to straight brickwork or concrete the channels of the outer frames must be well filled with a continuous fillet of 3 to 1 cement.

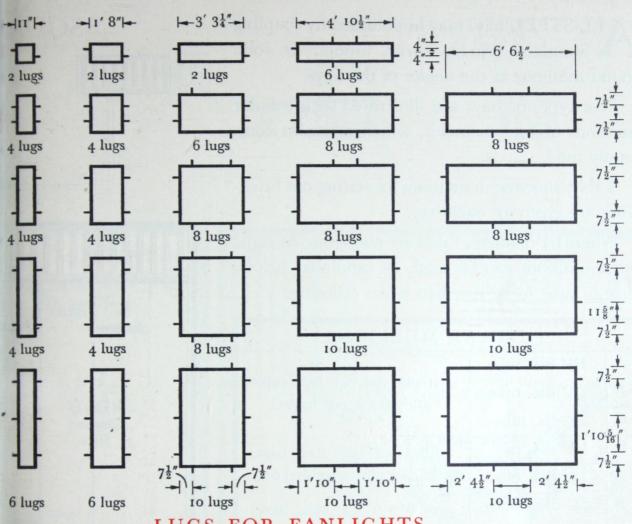
When fixing to wood frames, stonework, rebated brick or rebated concrete, the windows must be bedded in mastic at the rate of 1 lb. to 5 lineal feet; we manufacture our own special mastic and supply it where required at extra cost.

Outside rendering must be kept well clear of hinges and ventilators.

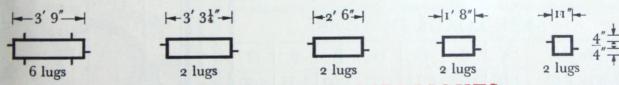
Full size details of Heads, Jambs and Cills are shown on page 6.

Ventilators All ventilators and doors are secured before despatch in the manner shown below, in order that they may arrive on the site in good

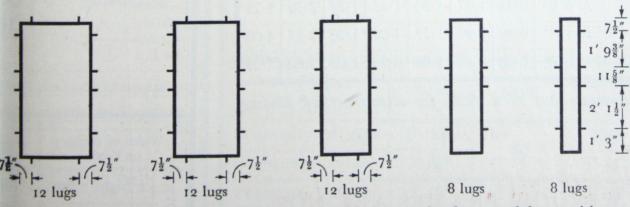
LUGS FOR WINDOWS



LUGS FOR FANLIGHTS



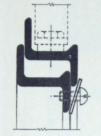
LUGS FOR DOORS AND SIDELIGHTS



ditional holes to those shown above are drilled in window frames, and should be filled in th mastic when fixing.

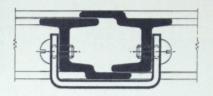
INDOWS · Galvanized

condition. Screws securing doors must be removed for fixing but should be replaced until the last moment before glazing.



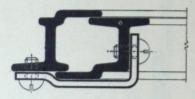
STANDARD WINDOW

HALF FULL SIZE DETAILS



DOUBLE DOORS

Meeting Rail



SINGLE DOORS

Composite Windows Great care must be taken in handling, and especially in unpacking composite windows, to see that the coupling bolts do not become strained and the mastic pointing broken.

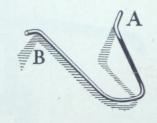
Windows exceeding 6 ft. in height or 8 ft. 3 in. in width must be assembled (in whole or in part) by the customer on the site; the coupling joints must be thoroughly bedded in mastic before assembly and we supply mastic for this free of charge.

Glass, Glazing and Putty Detailed glazing instructions are sent with each consignment of windows, and should be strictly followed.

Ordinary glazier's putty is not suitable for glazing metal windows as the steel will not absorb the excessive quantity of oil; we supply a special quick-setting metallic putty on request.

HOPE'S Spring Glazing Clips are supplied for securing larger panes in 'N' type windows.





Fix as follows: Fit A into the hole in the window frame, leaving the clip resting on the glass. Press portion B along the glass towards the frame until it springs into position in the clearance between the edge of the glass and the steel frame.

Painting Galvanized windows should not be painted until four or five weeks after delivery, to allow the galvanized surface to weather. We recommend that paint to one of the following B. S. Specifications should be used as a priming coat: B.S. 295/1936 red oxide and B.S. 278/1936 zinc oxide.

Putty must not be painted until it has properly set.

Standard · HOPE'S WIN

Fixing Materials

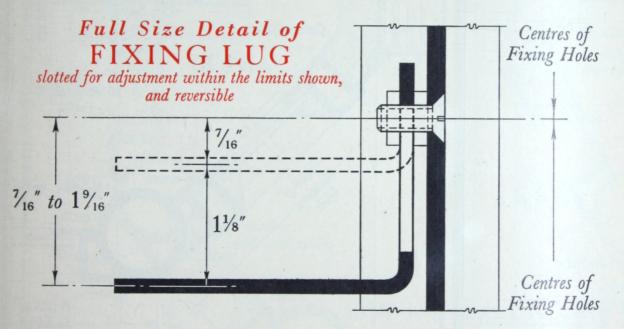
When ordering, state whether fixing to brickwork, wood, concrete or steel, when the appropriate materials will be provided, as follows:

Lugs, slotted and reversible, with sherardized screws and nuts, are provided where windows are fixed direct to masonry.

Wood Screws, $1\frac{1}{4}$ No. 10 sherardized, are provided, when fixing to wood, concrete or stone.

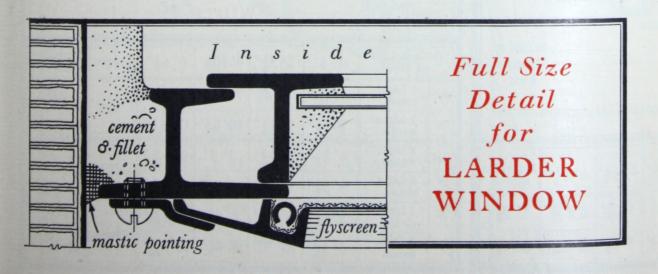
When fixing to steelwork, customer should provide details of openings so that correct fixing materials can be supplied.

Windows with steel sub-frames (see pages 16-17) are screwed into the sub-frames before despatch.



6 l

Addition with m



NOTES

on Fixing, Glazing & Painting

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Where customers prefer to fix and glaze with their own labour we would respectfully urge them to insist on the following precautions.

Handling and Storage Galvanized Windows may be stored in the open without detriment; they must, however, be kept clean and free from mud, plaster or cement. They should be stacked vertically on edge on level battens, with hinges and fittings clear of one another.

Fixing Whenever possible fixing of windows should be postponed until rougher trades have left the site. If they are to be built in, particular care must be taken to see that they are not damaged by scaffold boards placed on the cills or on the glazing bars.

Windows must be secured dead plumb and level in the openings and free from twist. Special care should be taken with metal doors.

When fixing to straight brickwork or concrete the channels of the outer frames must be well filled with a continuous fillet of 3 to 1 cement.

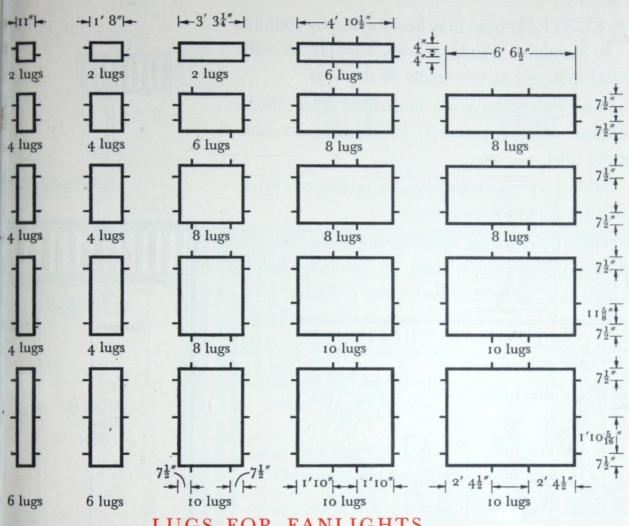
When fixing to wood frames, stonework, rebated brick or rebated concrete, the windows must be bedded in mastic at the rate of 1 lb. to 5 lineal feet; we manufacture our own special mastic and supply it where required at extra cost.

Outside rendering must be kept well clear of hinges and ventilators.

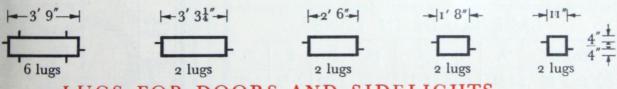
Full size details of Heads, Jambs and Cills are shown on page 6.

Ventilators All ventilators and doors are secured before despatch in the manner shown below, in order that they may arrive on the site in good

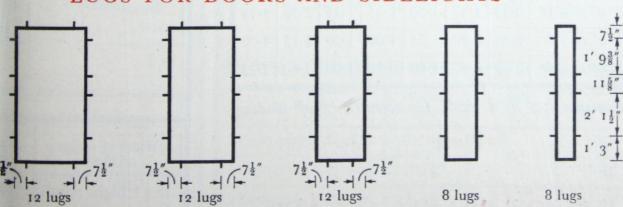
LUGS FOR WINDOWS



LUGS FOR FANLIGHTS



LUGS FOR DOORS AND SIDELIGHTS



above diagrams show fixing hole centres; see detail opposite for actual lug positions. litional holes to those shown above are drilled in window frames, and should be filled in n mastic when fixing.

Details of HOPE'S

ALL-STEEL bays may be obtained by coupling Standard Windows with tubular or solid round mullions at the angles of the bays.

Five types of bays are illustrated with tubular mullions of 111 diameter, which are most commonly used.

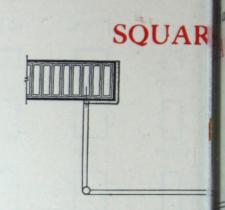
Tables showing dimensions for setting out brickwork are given for each bay.

Where 111 diameter tubes are not strong enough, other mullions can be used, as tabulated below. Size of tube to be specified when ordering.

	T	UBU	LA	R MU	LLI	ONS		
A	1 11 dia. tube		e	1.1 4.11 11				,
В	1 <u>29</u> " dia	. tube	e	with 4½" dia. cast iron caps				
C	C 23" dia. tube and bases sent loose.							
D	1 11 dia	9	with 4	1"×4"	× 3″ S	steel b	ase	
E	E $1\frac{29}{32}$ dia. tube			and c	ap pla	ates w	elded	on.
F	23" dia. tube			with 6	5"×6"	× 3″ S	teel b	ase
G	2" dia.	solid		and ca	ap pla	ites w	elded	on.
	SA	AFE	LOA	ADS 1	N T	ONS		
	Height	A	В	C	D	E	F	G
Up	to 3' 0"	1.00	1.25	1.75	1.50	2.00	2.75	5.50
3' (0" to 4' 0"	0.75	1.17	1.50	1.25	1.75	2.50	4.75
4' (0" to 5' 0"	0.50	0.90	1.25	1.00	1.50	2.25	4.00
5' (0" to 6' 0"	0.20	0.60	1.00	0.75	1.00	2.00	3.25

Allowance has been made for eccentricity of loading.

WINDOW FRAMES ARE NOT DESIGNED TO CARRY WEIGHT



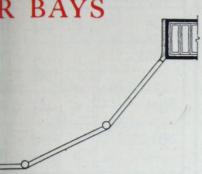


V	Vidth of Lights on Front	1' 8"
WIDTHS	1 Light return	1' 101
WID	2 Light return	1' 101'

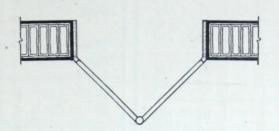
VINDOWS in Bays

elf Full Size





ORIEL BAYS



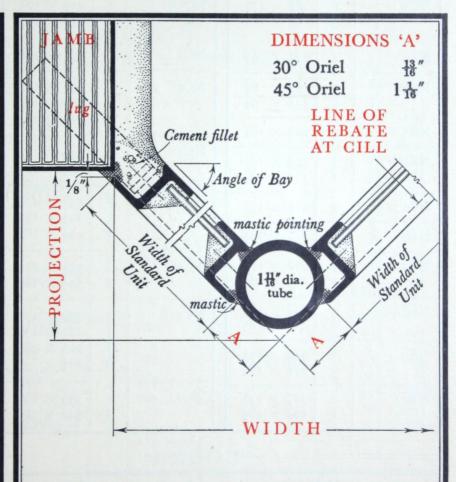
DIMENSIONS 'A'

11/1 3 Light Bays All others

Inside



5	6	7	8
7' 6"	9' 0"	10′ 6″	12' 0"
777"	5'.65"	6' 5 13 "	7′ 5″
1′ 10″	2' 3 9 "	2' 77"	3' 03"



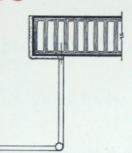
No. of Lights on splays	Widths	Angle	Projection approx.
1 Light splay 1'8" wide	2' 117"	30°	101/2"
2 Light splay 3' 3\frac{1}{4}" wide	5' 91"	30	1' 8\frac{1}{4}"
1 Light splay 1'8" wide	2' 5\frac{3}{4}"	45°	1' 27"
2 Light splay 3' 3¼" wide	4′ 9″	43	2' 4½"

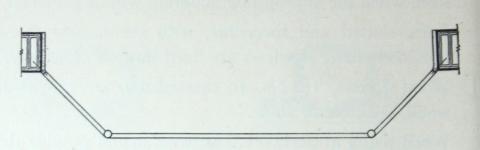
WINDOWS in Bays

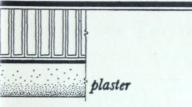
Details are Half Full Size

BAYS









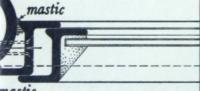
ement fillet

INE OF EBATE T CILL

Inside

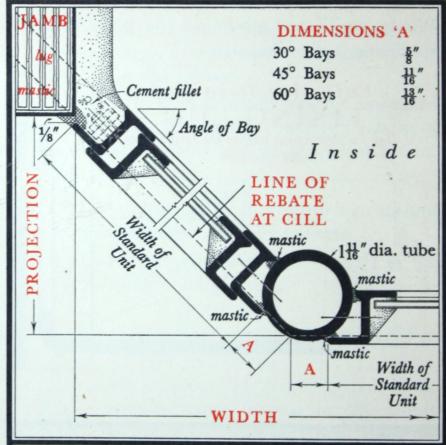
stic 111 dia. tube

- WIDTH



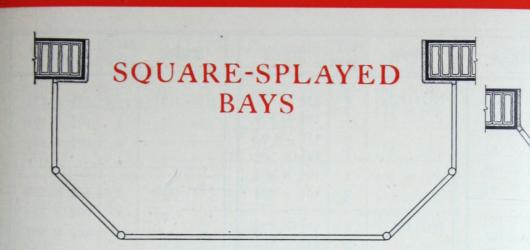
Width of
Standard
Unit

31"	4' 10½"	6' 61''	Projection approx.
53"	5' 05"	6' 8 13 "	1′ 9½″
53"	5' 05"	6' 8 13 "	3' 41''

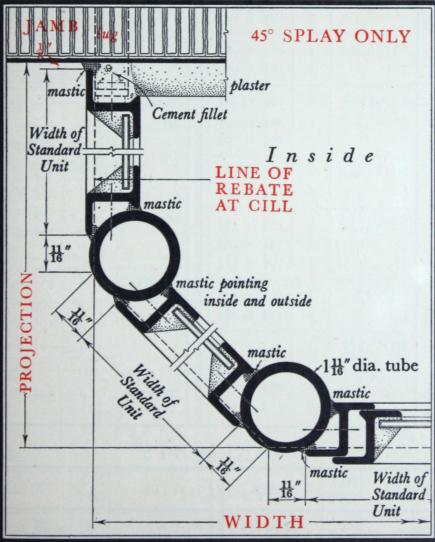


	lth of Lights on Front	1' 8"	3' 31"	4' 10½"	6' 61''	Angle	Projection approx.
-	1 Light return	4' 83"	6' 4"	7' 1114"	9' 77"	200	103"
S	2 Light return	7' 63"	9' 15"	10' 87"	12' 51"	30°	1' 8"
TH	1 Light return	4' 21"	5' 93"	7′ 5″	9' 13"	450	1' 25"
ID	2 Light return	6' 57"	8' 11 "	9' 83"	11'49"	45°	2' 43"
3	1 Light return	3' 63"	5' 15"	6' 87"	8' 51"	600	1' 6"
	2 Light return	5' 13"	6' 9"	8' 41"	10'07"	60°	2' 103"

Details of HOPE'S W



Details are Half
CIRCULAR



Li	Width of ghts on Front	1'8"	3' 31"	4' 101"	6' 6½"	Angle	Projection approx.
THS	1 Light splay and return	4' 35"	5′ 10 7 ″	7' 61"	9' 25"	45°	2' 117"
WID	2 Light splay and return	6' 67''	8' 21"	9' 93"	11′5 9 ″	43	5' 83"



1' 8" wide

Widths

Radius

Projection

approx.

6' 4"

4' 74"

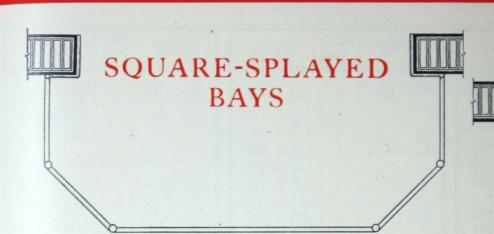
1' 31 "

4' 6"

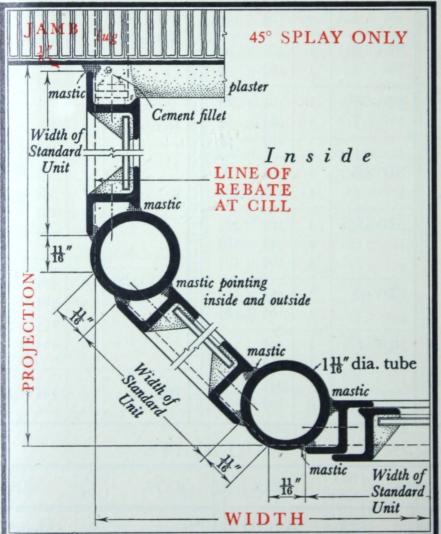
2' 8"

1'1"

Details of HOPE'S



Details a : III



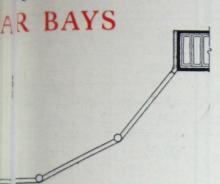
Width of Lights on Front	1'8"	3' 31"	4' 101"	6' 61''	Angle	Projection approx.
1 Light splay and return	4' 35"	5' 10 7 "	7' 61"	9' 25"	45°	2' 117"
2 Light splay and return	6' 67''	8' 21"	9' 93"	11'59"	43	5' 83"



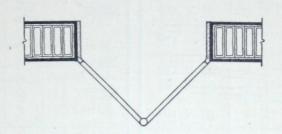
No. of Lights 1' 8" wide	3	-
Widths	4' 6"	
Radius	2' 8"	1
Projection approx.	1' 1"	

WINDOWS in Bays

Alf Full Size

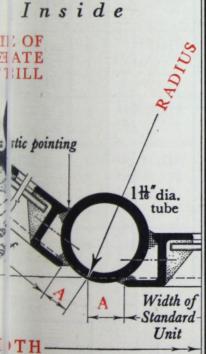


ORIEL BAYS

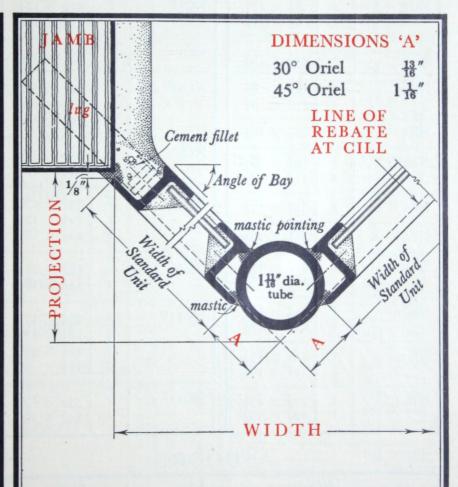


DIMENSIONS 'A'

3 Light Bays All others



5	6	7	8
7' 6"	9' 0"	10′ 6″	12' 0"
777"	5'.65"	6' 5 13 "	7′ 5″
1′ 10″	2' 3 9 "	2' 77"	3' 03"



No. of Lights on splays	Widths	Angle	Projection approx.
1 Light splay 1'8" wide	2' 117"	30°	101/2
2 Light splay 3' 34" wide	5' 9\frac{1}{8}"	30	1' 81/4"
1 Light splay 1'8" wide	2' 5\frac{3}{4}"	45°	1' 27"
2 Light splay 3' 34" wide	4′ 9″	43	2' 4½"

Details of HOPE'S

ALL-STEEL bays may be obtained by coupling Standard Windows with tubular or solid round mullions at the angles of the bays.

Five types of bays are illustrated with tubular mullions of 111 diameter, which are most commonly used.

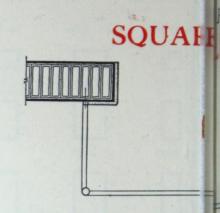
Tables showing dimensions for setting out brickwork are given for each bay.

Where 111 diameter tubes are not strong enough, other mullions can be used, as tabulated below. Size of tube to be specified when ordering.

TUBULAR MULLIONS								
A	1ዜ" dia. tube							
В	129 dia. tube			with 4½" dia. cast iron caps and bases sent loose.				
C	2¾" dia.	tube		and bases sent noise.				
D	1 $\frac{11}{16}$ dia. tube with $4'' \times 4'' \times \frac{3}{8}$ steel 1					teel b	ase	
E	1 ²⁹ dia. tube and cap plates welded on.						on.	
F	2¾" dia.		with 6	5"×6"	× 3″ S	teel b	ase	
G	2" dia.	solid		and ca	ap pla	ites w	elded	on.
	SAFE LOADS IN TONS							
Height A I			В	C	D	E	F	G
Up to 3' 0" 1.00		1.00	1.25	1.75	1.50	2.00	2.75	5.50
3' 0" to 4' 0" 0.7		0.75	1.17	1.50	1.25	1.75	2.50	4.75
4' (4' 0" to 5' 0" 0.5		0.90	1.25	1.00	1.50	2-25	4.00
5' 0" to 6' 0" 0.20 0.		0.60	1.00	0.75	1.00	2.00	3.25	

Allowance has been made for eccentricity of loading.

WINDOW FRAMES ARE NOT DESIGNED TO CARRY WEIGHT





1 Light return

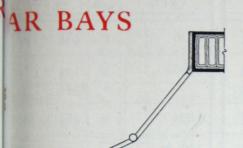
2 Light return

1' 101

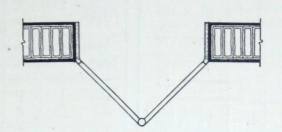
1'10]

VINDOWS in Bays

lalf Full Size

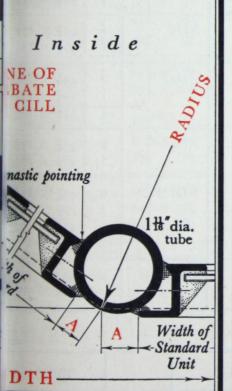


ORIEL BAYS

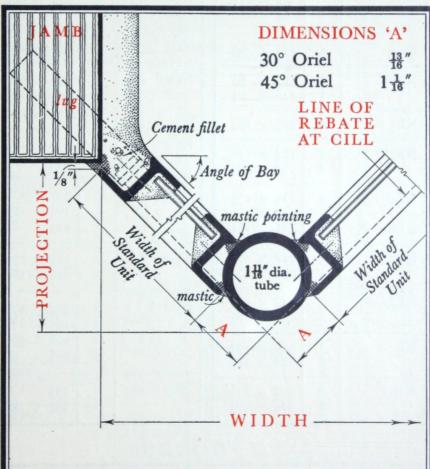


DIMENSIONS 'A'

3 Light Bays $\frac{11}{16}$ All others $\frac{1}{2}$



5	6	7	8	
7' 6"	9' 0"	10′ 6″	12' 0"	
4' 77"	5'.65"	6' 5\frac{13}{16}"	7′ 5″	
1′ 10″	2' 3 ⁹ / ₁₆ "	2' 77"	3' 03"	



No. of Lights on splays	Widths	Angle	Projection approx.	
1 Light splay 1'8" wide	2' 117"	30°	101/2"	
2 Light splay 3' 3\frac{1}{4}" wide	5' 91"	30	1' 81"	
1 Light splay 1'8" wide	2' 5\frac{3}{4}"	45°	1' 27"	
2 Light splay 3' 3¼" wide	4′ 9″	43	2' 4½"	

TYPE	NO. OFF	SIZES	TYPE	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZES
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$	NC6	I	$34\frac{1}{2} \times 9\frac{1}{4}$	ND6	I	46½ × 9¼
NG ₅	I	$9\frac{3}{4}\times 18\frac{1}{4}$	NC6F	I	10½ × 8½	ND6F	I	10½ × 8½
NGı	I	$8\frac{5}{8} \times 17\frac{1}{8}$		I	$22\frac{7}{8} \times 9\frac{1}{4}$		I	$34\frac{1}{2} \times 9\frac{1}{4}$
NG2	I	$\begin{array}{c} 8\frac{5}{8} \times 17\frac{1}{8} \\ 9\frac{3}{4} \times 18\frac{1}{4} \end{array}$	NC ₅	I	$34^{\frac{1}{2}} \times 18^{\frac{1}{4}}$	ND ₅	I	46½ × 18¼
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$	NC ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $22\frac{7}{8} \times 18\frac{1}{4}$	ND ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 18\frac{1}{4}$
NG ₃	I 2	$\begin{array}{c} 8\frac{5}{8} \times 17\frac{1}{8} \\ 9\frac{3}{4} \times 18\frac{1}{4} \end{array}$	NC ₅ E	I	$ \begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \end{array} $	ND ₅ E	I	$ \begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array} $
NE6	I	$22\frac{7}{8} \times 9\frac{1}{4}$	NCI	I	$33\frac{1}{2} \times 17\frac{1}{8}$	NDI	I	45½ × 17½
NE6F	I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$	NC ₂ F	I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$	ND ₂ F	I	45½ × 17½ 10¼ × 17½
NE ₅	I	$22\frac{7}{8} \times 18\frac{1}{4}$		I	$22\frac{7}{8} \times 18\frac{1}{4}$		I	$34\frac{1}{2} \times 18\frac{1}{4}$
NE ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	NC2	I	$\begin{array}{c} 33\frac{1}{2} \times 17\frac{1}{8} \\ 34\frac{1}{2} \times 18\frac{1}{4} \end{array}$	ND2	I	$45\frac{1}{8} \times 17\frac{1}{8}$ $46\frac{1}{8} \times 18\frac{1}{4}$
NEi	I	217/8 × 171/8	NC4F	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$	ND ₄ F	2	45½ × 17½
NESI	I	$21\frac{7}{8}\times17\frac{1}{8}$		I	$10\frac{1}{4} \times 17\frac{1}{8}$ $22\frac{7}{8} \times 18\frac{1}{4}$		I	$10\frac{1}{4} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 18\frac{1}{4}$
NE2	I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array}$	NC4	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 18\frac{1}{4}$	ND4	2 I	$45\frac{1}{8} \times 17\frac{1}{8}$ $46\frac{1}{8} \times 18\frac{1}{4}$
NES2	I	$ \begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array} $	NC11F	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$	ND11F	2 I	$45\frac{1}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$
NE ₃	I 2	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array}$		I 2	$\begin{array}{c} 22\frac{7}{8} \times 38\frac{1}{4} \\ 11\frac{3}{8} \times 9\frac{3}{4} \end{array}$		2	$11\frac{3}{8} \times 9\frac{1}{2}$ $34\frac{1}{2} \times 38\frac{1}{2}$
NEII	2 I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 38\frac{1}{4} \end{array}$	NC11	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 38\frac{1}{4}$	ND11	2 I	45½ × 17½ 46½ × 38½

DOORS

TYPE	NO. OFF	SIZES
NA25	2 2 I	$33\frac{1}{8} \times 19\frac{1}{8}$ $22\frac{7}{8} \times 19\frac{1}{8}$ $11\frac{3}{8} \times 19\frac{1}{8}$ $11\frac{3}{8} \times 15\frac{1}{8}$

TYPE	NO. OFF	SIZES
NA ₂	2	$33\frac{1}{8} \times 16\frac{1}{4}$
	2	$22\frac{7}{8} \times 16\frac{1}{4}$
	I	$11\frac{3}{8} \times 16\frac{1}{4}$
	I	$11\frac{3}{8} \times 12\frac{1}{4}$
NA ₁₅	I	$33\frac{1}{8} \times 25\frac{3}{8}$
	I	$22\frac{7}{8} \times 25\frac{3}{8}$
	I	$11\frac{3}{8} \times 21\frac{3}{8}$

3101
TYPE
NA ₅
NA6
14710

ТУРЕ	NO. OFF	SIZES
HD ₄	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$
HD11F	4 4 1 2 3	$ \begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 9\frac{3}{4} \\ 11\frac{3}{8} \times 38\frac{1}{4} \end{array} $
HD11	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 38\frac{1}{4}$
HD6/S	3	$11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HD6F/S	I 2 I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HD ₅ /S	3	$11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD ₅ F/S	I 2 I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD1/S	2 I I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD ₂ F/S	2 I I 2 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
HD2/S	2 I 3 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD4F/S	4 2 1 2 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD4/S	4 2 3 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD11F/S	4 2 1 2 2 1 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{3}{4}$ $11\frac{3}{8} \times 38\frac{1}{4}$ $10\frac{5}{8} \times 38\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD11/S	4 2 3 1 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 38\frac{1}{4}$ $10\frac{5}{8} \times 38\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV6/S	4	$11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HDV6F/S	1 3 1	$ \begin{array}{ccc} 10\frac{1}{4} \times & 8\frac{1}{8} \\ 11\frac{3}{8} \times & 9\frac{1}{4} \\ 10\frac{5}{8} \times & 9\frac{1}{4} \end{array} $
HDV ₅ /S	4	$11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₅ F/S	1 3 1	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
HDV1/S	2	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₂ F/S	2	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 18\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₂ /S	2	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 18\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₄ F/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₄ /S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
Married Lands	4	$11\frac{3}{8} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV11F/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 9\frac{3}{4}$
	3	$11\frac{3}{8} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV11/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 38\frac{1}{4}$
	I .	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HLı	2	$10\frac{1}{4} \times 16\frac{1}{8}$

GHTS

	SIZES
	113 × 181
1	113 × 91

FANLIGHTS

ТҮРЕ	NO. OFF	SIZES
NG25	2	$9\frac{3}{4} \times 21\frac{1}{8}$
NG25F	I	$8\frac{5}{8} \times 20$ $9\frac{3}{4} \times 21\frac{1}{8}$
NG15	ı	$9\frac{3}{4} \times 28\frac{1}{4}$
NG15F	I	$8\frac{5}{8} \times 27\frac{1}{8}$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$
NGI	I	$8\frac{5}{8} \times 17\frac{1}{8}$
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$

NDOWS

GLASS SIZES (CLEARANCE ALLOWED)

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ТҮРЕ		SIZES
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND6/S		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		_	108 × 94
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND6F/S	I	$10\frac{1}{4} \times 8\frac{1}{8}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$10\frac{5}{8} \times 9\frac{1}{4}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND5/S	I	$34\frac{1}{9} \times 18\frac{1}{7}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,	I	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND ₅ F/S	I	10\frac{1}{4} \times 17\frac{1}{8}
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$22\frac{7}{8} \times 18\frac{1}{4}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$10\frac{5}{8} \times 18\frac{1}{4}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND1/S	I	$33\frac{1}{2} \times 17\frac{1}{8}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		I	$10\frac{5}{8} \times 18\frac{1}{4}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND ₂ F/S	I	$33\frac{1}{2} \times 17\frac{1}{8}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$10\frac{1}{4} \times 17\frac{1}{8}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$22\frac{7}{8} \times 18\frac{1}{4}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2	$10\frac{5}{8} \times 18\frac{1}{4}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ND ₂ /S	I	$33\frac{1}{2} \times 17\frac{1}{8}$
ND4F/S 2 $33\frac{1}{2} \times 17\frac{1}{8}$ I $10\frac{1}{4} \times 17\frac{1}{8}$ I $22\frac{7}{8} \times 18\frac{1}{4}$ 3 $10\frac{5}{8} \times 18\frac{1}{4}$ ND4/S 2 $33\frac{1}{2} \times 17\frac{1}{8}$ I $34\frac{1}{2} \times 18\frac{1}{4}$		I	$34^{\frac{1}{2}} \times 18^{\frac{1}{4}}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2	$10\frac{5}{8} \times 18\frac{1}{4}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ND ₄ F/S	2	$33\frac{1}{2} \times 17\frac{1}{8}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		I	$22\frac{7}{8} \times 18\frac{1}{4}$
$\begin{array}{c c} & 34\frac{1}{2} \times 18\frac{1}{4} \end{array}$		3	$10\frac{5}{8} \times 18\frac{1}{4}$
	ND ₄ /S	2	$33\frac{1}{2} \times 17\frac{1}{8}$
$3 10\frac{5}{8} \times 18\frac{1}{4}$	7 6 6 5	I	
		3	$10\frac{5}{8} \times 18\frac{1}{4}$

	1	
TYPE	NO. OFF	SIZES
NDE/C		001 V 151
ND11F/S	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$
	2	$10\frac{3}{4} \times 1/\frac{8}{8}$ $11\frac{3}{8} \times 9\frac{3}{4}$
	I	$22\frac{7}{8} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 30\frac{1}{4}$
	2	$10\frac{5}{8} \times 30\frac{4}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
		108 × 104
ND11/S	2	$33\frac{1}{2} \times 17\frac{1}{8}$
	I	$34^{\frac{1}{2}} \times 38^{\frac{1}{4}}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV6/S	I	$46\frac{1}{8} \times 9\frac{1}{4}$
	I	$10\frac{5}{8} \times 9\frac{1}{4}$
NDV6F/S	I	$10\frac{1}{4} \times 8\frac{1}{8}$
	I	$34\frac{1}{2} \times 9\frac{1}{4}$
	I	$10\frac{5}{8} \times 9\frac{1}{4}$
NDV ₅ /S	I	$46\frac{1}{8} \times 18\frac{1}{4}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV ₅ F/S	I	10½ × 17½
	I	$34\frac{1}{2} \times 18\frac{1}{4}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV1/S	I	$45\frac{1}{8} \times 17\frac{1}{8}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV ₂ F/S	I	$45\frac{1}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	I	$34\frac{1}{2} \times 18\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
NIDI/-/C		1 v1
NDV2/S	I	$45\frac{1}{8} \times 17\frac{1}{8}$
	I	$46\frac{1}{8} \times 18\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV4F/S	2	$45\frac{1}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	I	$34\frac{1}{2} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
NDV4/S	2	$45\frac{1}{8} \times 17\frac{1}{8}$
1	I	$46\frac{1}{8} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
		*
NDV11F/S	2	$45\frac{1}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 9\frac{3}{4}$
	I	$34\frac{1}{2} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8}\times18\frac{1}{4}$
NDV11/S	2	45½ × 17½
, ~	I	$46\frac{1}{8} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
		8 7. 154
NLı	I	$20\frac{7}{8} \times 16\frac{1}{8}$

IGHTS

O. FF	SI	SIZES		
	$34\frac{1}{2}$	×	181	
	113	×	181	
	2278	×	181	
	$34\frac{1}{2}$	×	914	
	113	×	91	
	2278	×	91/4	

FANLIGHTS

ТУРЕ	NO. OFF	SIZES
NG25	2	$9\frac{3}{4} \times 21\frac{1}{8}$
NG25F	I	$8\frac{5}{8} \times 20$ $9\frac{3}{4} \times 21\frac{1}{8}$
NG15	I	$9\frac{3}{4} \times 28\frac{1}{4}$
NG15F	I	$8\frac{5}{8} \times 27\frac{1}{8}$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$
NGI	I	$8\frac{5}{8} \times 17\frac{1}{8}$
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$

HORIZONTAL PANE **TYPES**

HOPE'S WI

TYPE	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZES
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$	HEII	4	$10\frac{3}{4} \times 17\frac{1}{8}$	HC11F	4	$10\frac{3}{4} \times 17\frac{1}{8}$
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$		2	$11\frac{3}{8} \times 38\frac{1}{4}$		2 I	$11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$
NGı	I	$8\frac{5}{8} \times 17\frac{1}{8}$	HC6	3	$11\frac{3}{8} \times 9\frac{1}{4}$		2 2	$11\frac{3}{8} \times 9\frac{3}{4}$ $11\frac{3}{8} \times 38\frac{1}{4}$
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$	HC6F	I	$10\frac{1}{4} \times 8\frac{1}{8}$	HCII	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	I	$9\frac{3}{4} \times 18\frac{1}{4}$		2	113 × 91	1 3 1	2	$11\frac{3}{8} \times 17\frac{1}{8}$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$	HC ₅	3	$11\frac{3}{8} \times 18\frac{1}{4}$	TAD C	3	$11\frac{3}{8} \times 38\frac{1}{4}$
			HC5F	I	$10\frac{1}{4} \times 17\frac{1}{8}$	HD6	4	$11\frac{3}{8}\times 9\frac{1}{4}$
NG3	I 2	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$		2	$11\frac{3}{8} \times 18\frac{1}{4}$	HD6F	3	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$
HE6	2	$11\frac{3}{8}\times 9\frac{1}{4}$	HC ₅ E	2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HD ₅	4	$\frac{11\frac{3}{8}\times18\frac{1}{4}}{11\frac{3}{8}\times18\frac{1}{4}}$
NECE			HCı	2	$10\frac{3}{4} \times 17\frac{1}{8}$	HD ₅ F		
NE6F	I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$	lio.	i	$11\frac{3}{8} \times 17\frac{1}{8}$	HD5F	3	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$
HE ₅	2	$11\frac{3}{8} \times 18\frac{1}{4}$	HC ₂ F	2	$10\frac{3}{4} \times 17\frac{1}{8}$	HD ₅ E	2	$10\frac{3}{4} \times 17\frac{1}{8}$
				I	$11\frac{3}{8} \times 17\frac{1}{8}$		2	$11\frac{3}{8}\times18\frac{1}{4}$
NE ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$		I 2	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HD1	2 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$
IIE-			HC ₂	2	$10\frac{3}{4} \times 17\frac{1}{8}$	- IIID II		/
HEI	2	$10\frac{3}{4} \times 17\frac{1}{8}$		I	$11\frac{3}{8}\times17\frac{1}{8}$	HD ₂ F	2 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$
HESI	2	$10\frac{3}{4} \times 17\frac{1}{8}$		3	$11\frac{3}{8} \times 18\frac{1}{4}$		I	$10\frac{1}{4} \times 17\frac{1}{8}$
HE ₂	2	$10\frac{3}{4} \times 17\frac{1}{8}$	HC4F	4	$10\frac{3}{4} \times 17\frac{1}{8}$		3	$11\frac{3}{8}\times18\frac{1}{4}$
	2	$11\frac{3}{8} \times 18\frac{1}{4}$		2	$11\frac{3}{8} \times 17\frac{1}{8}$	HD ₂	2	$10\frac{3}{4} \times 17\frac{1}{8}$
				I	$10\frac{1}{4} \times 17\frac{1}{8}$		2	$11\frac{3}{8} \times 17\frac{1}{8}$
HES2	2	$10\frac{3}{4} \times 17\frac{1}{8}$		2	$11\frac{3}{8} \times 18\frac{1}{4}$		4	$11\frac{3}{8} \times 18\frac{1}{4}$
	2	$11\frac{3}{8} \times 18\frac{1}{4}$	HC ₄	4	$10\frac{3}{4} \times 17\frac{1}{8}$	HD ₄ F	4	$10\frac{3}{4} \times 17\frac{1}{8}$
HE ₃	2	$10\frac{3}{4} \times 17\frac{1}{8}$		2	$11\frac{3}{8} \times 17\frac{1}{8}$		4	$11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$
	4	$11\frac{3}{8} \times 18\frac{1}{4}$		3	$11\frac{3}{8} \times 18\frac{1}{4}$		3	$11\frac{3}{8}\times18\frac{1}{4}$

DOORS

TYPE	NO. OFF	SIZES
HA25	2 9	$9\frac{7}{8} \times 19\frac{1}{8}$ $11\frac{3}{8} \times 19\frac{1}{8}$
	I	$11\frac{3}{8} \times 15\frac{1}{8}$
HA ₂	2	$9\frac{7}{8} \times 16\frac{1}{4}$
	9	$11\frac{3}{8} \times 16\frac{1}{4}$
	I	$11\frac{3}{8}\times12\frac{1}{4}$

ТҮРЕ	NO. OFF	SIZES
HA15	1 4 1	$9\frac{7}{8} \times 25\frac{3}{8}$ $11\frac{3}{8} \times 25\frac{3}{8}$ $11\frac{3}{8} \times 21\frac{3}{8}$

SIDELIG

TYPE	NO. OFF
HA ₅	6
НА6	6

HORIZONTAL PANE TYPES

ZES

178 181 181

178

184

34

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HOPE'S M

TYPE	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZI
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$	HEII	4 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 38\frac{1}{4}$	HC11F	4 2	10¾ X 11¾ X
NG ₅	I	$\frac{9\frac{3}{4} \times 18\frac{1}{4}}{8\frac{5}{8} \times 17\frac{1}{8}}$	HC6	3	113 × 91		I 2 2	10½ X 11¾ X 11¾ X
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8} \\ 9\frac{3}{4} \times 18\frac{1}{4}$	HC6F	I 2	10½ × 8½ 11¾ × 9½	HC11	4 2	103 × 113 ×
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$	HC ₅	3	$\frac{11\frac{3}{8} \times 18\frac{1}{4}}{10\frac{1}{4} \times 17\frac{1}{8}}$	HD6	3	113 ×
NG3	I 2	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$		2	$11\frac{3}{8} \times 18\frac{1}{4}$	HD6F	1 3	10½ × 11¾ ×
HE6	2	113 × 91	HC ₅ E	2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HD ₅	4	118 × 1
NE6F	I	10½ × 8½ 11¾ × 9¼	HCı	2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$	HD ₅ F	1 3	10½ × 1 11¾ × 1
HE ₅	2	113 × 181	HC ₂ F	2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$	HD ₅ E	2 2	$10\frac{3}{4} \times 1$ $11\frac{3}{8} \times 1$
NE ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$		I 2	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HDı	2 2	10 ³ / ₄ × 1 11 ³ / ₈ × 1
HEI	2	10 ³ / ₄ × 17 ¹ / ₈	HC2	2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$	HD ₂ F	2 2	$10\frac{3}{4} \times 1$ $11\frac{3}{8} \times 1$
HES ₁	2	$10\frac{3}{4} \times 17\frac{1}{8}$	77.0.5	3	$11\frac{3}{8}\times18\frac{1}{4}$		3	$10\frac{1}{4} \times 1$ $11\frac{3}{8} \times 1$
HE2	2 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HC ₄ F	4 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$	HD ₂	2 2	10 ³ / ₄ × I
HES ₂	2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$		2	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	IID T	4	113 × 1
HE ₃	2 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HC4	4 2 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	HD ₄ F	4 4 1 3	$10\frac{3}{4} \times 1$ $11\frac{3}{8} \times 1$ $10\frac{1}{4} \times 1$ $11\frac{3}{8} \times 1$

DOORS

TYPE	NO. OFF	SIZES
HA25	2 9 1	$9\frac{7}{8} \times 19\frac{1}{8}$ $11\frac{3}{8} \times 19\frac{1}{8}$ $11\frac{3}{8} \times 15\frac{1}{8}$
HA ₂	2 9 I	$9\frac{7}{8} \times 16\frac{1}{4}$ $11\frac{3}{8} \times 16\frac{1}{4}$ $11\frac{3}{8} \times 12\frac{1}{4}$

ТҮРЕ	NO. OFF	SIZES
HA15	1 4 1	$9\frac{7}{8} \times 25\frac{3}{8}$ $11\frac{3}{8} \times 25\frac{3}{8}$ $11\frac{3}{8} \times 21\frac{3}{8}$

SIL

BAS

SIL	1 111	I
TYPE	NO OI	B
HA ₅	6	==
НА6	6	1

	YPE	NO. OFF	SIZES
H	4	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$
H	ııF	4 4 1 2 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{3}{4}$ $11\frac{3}{8} \times 38\frac{1}{4}$
H	II	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 38\frac{1}{4}$
H	6/S	3	$11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
H	6F/S	I 2 I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
H	5/S	3	$11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
H	5F/S	I 2 I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
H	1/S	2 I I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{5}{8} \times 18\frac{1}{4}$
H	2F/S	2 I I 2 2	$ \begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array} $

ТҮРЕ	NO. OFF	SIZES
HD2/S	2 I 3 2	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HD ₄ F/S	4 2 1 2 3	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HD4/S	4 2 3 3	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HD11F/S	4 2 1 2 2 1 2	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 9\frac{3}{4} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HD11/S	4 2 3 1 2	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HDV6/S	4	$11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HDV6F/S	1 3 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
HDV ₅ /S	4	$11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₅ F/S	1 3 1	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$

ТҮРЕ	NO. OFF	SIZES
HDV1/S	2 2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₂ F/S	2 2 1 3	$ \begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \end{array} $
HDV ₂ /S	2	$10\frac{5}{8} \times 18\frac{1}{4}$
1110 12/3	2 4 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₄ F/S	4 4 1 3 3	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HDV4/S	4 4 4 3	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HDV11F/S	4 4 1 2 3 1	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 9\frac{3}{4} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HDV11/S	4 4 4 1 2	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HLı	2	$10\frac{1}{4} \times 16\frac{1}{8}$

OHTS

SI	SIZES				
138	×	181			
138	×	91			

FANLIGHTS

ТҮРЕ	NO. OFF	SIZES
NG25	2	$9\frac{3}{4} \times 21\frac{1}{8}$
NG25F	I	$8\frac{5}{8} \times 20$ $9\frac{3}{4} \times 21\frac{1}{8}$
NG15	I	$9\frac{3}{4} \times 28\frac{1}{4}$
NG15F	I	$8\frac{5}{8} \times 27\frac{1}{8}$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$

TYPE	NO. OFF	SIZES
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$
NG1	I	$8\frac{5}{8} \times 17\frac{1}{8}$
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$

'NO-PANE' TYPES

HOPE'S W

TYPE	NO. OFF	SIZES	TYPE	NO. OFF	SIZES	ТҮРЕ	NO. OFF	SIZES
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$	NC6	I	$34^{\frac{1}{2}} \times 9^{\frac{1}{4}}$	ND6	I	$46\frac{1}{8} \times 9$
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$	NC6F	I	$10\frac{1}{4} \times 8\frac{1}{8}$ $22\frac{7}{8} \times 9\frac{1}{4}$	ND6F	I	$10\frac{1}{4} \times 8$ $34\frac{1}{2} \times 9$
NGI	I	$8\frac{5}{8} \times 17\frac{1}{8}$		-		ND-		
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$	NC ₅		$34^{\frac{1}{2}} \times 18^{\frac{1}{4}}$	ND ₅	I	$46\frac{1}{8} \times 18$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$	NC ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $22\frac{7}{8} \times 18\frac{1}{4}$	ND ₅ F	I	$10\frac{1}{4} \times 17$ $34\frac{1}{2} \times 18$
NG3	I 2	$\begin{array}{c} 8\frac{5}{8} \times 17\frac{1}{8} \\ 9\frac{3}{4} \times 18\frac{1}{4} \end{array}$	NC ₅ E	I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \end{array}$	ND ₅ E	I	$21\frac{7}{8} \times 17$ $22\frac{7}{8} \times 18$
NE6	I	$22\frac{7}{8} \times 9\frac{1}{4}$	NCı	I	$33\frac{1}{2} \times 17\frac{1}{8}$	NDI	I	$45\frac{1}{8} \times 1$
NE6F	I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$	NC ₂ F	I I I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $22\frac{7}{8} \times 18\frac{1}{4}$	ND2F	III	$45\frac{1}{8} \times I$ $10\frac{1}{4} \times I$ $34\frac{1}{2} \times I$
NE ₅	I	$22\frac{7}{8} \times 18\frac{1}{4}$						
NE ₅ F	I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$	NC2	I	$33\frac{1}{2} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 18\frac{1}{4}$	ND2	I	$45\frac{1}{8} \times 1$ $46\frac{1}{8} \times 1$
NEI	I	$21\frac{7}{8}\times17\frac{1}{8}$	NC4F	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$	ND4F	2 I	45½ × I 10½ × I
NESI	I	$21\frac{7}{8} \times 17\frac{1}{8}$		I	$22\frac{7}{8} \times 18\frac{1}{4}$		I	$34^{\frac{1}{2}} \times 1$
NE2	I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array}$	NC4	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 18\frac{1}{4}$	ND4	2 I	45½ × 1 46½ × 1
NES ₂	I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array}$	NC11F	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$	ND11F	2 I	45½ × 1 10¼ × 1
NE ₃	I 2	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 18\frac{1}{4} \end{array}$		I 2	$\begin{array}{c} 22\frac{7}{8} \times 38\frac{1}{4} \\ 11\frac{3}{8} \times 9\frac{3}{4} \end{array}$		2	$11\frac{3}{8} \times 34\frac{1}{2} \times 3$
NEII	2 I	$\begin{array}{c} 21\frac{7}{8} \times 17\frac{1}{8} \\ 22\frac{7}{8} \times 38\frac{1}{4} \end{array}$	NC11	2 I	$33\frac{1}{2} \times 17\frac{1}{8}$ $34\frac{1}{2} \times 38\frac{1}{4}$	ND11	2 I	45½ × 1 46½ × 3

DOORS

TYPE	NO. OFF	SIZES
NA25	2	33½ × 19½
	2	$22\frac{7}{8} \times 19\frac{1}{8}$
	I	$11\frac{3}{8} \times 19\frac{1}{8}$
738 14	I	113 × 151
	200	

TYPE	NO. OFF	SIZES
NA2	2	$33\frac{1}{8} \times 16\frac{1}{4}$
	2	$22\frac{7}{8} \times 16\frac{1}{4}$
	· I	$11\frac{3}{8} \times 16\frac{1}{4}$
AND THE PERSON NAMED IN	I	$11\frac{3}{8} \times 12\frac{1}{4}$
NA15	I	$33\frac{1}{8} \times 25\frac{3}{8}$
	I	$22\frac{7}{8} \times 25\frac{3}{8}$
	I	$11\frac{3}{8}\times21\frac{3}{8}$

SIDH

TYP	E
NA ₅	
NA6	

ТҮРЕ	NO. OFF	SIZES
HD ₄	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$
HD11F	4 4 1 2 3	$ \begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 9\frac{3}{4} \\ 11\frac{3}{8} \times 38\frac{1}{4} \end{array} $
HD11	4 4 4	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 38\frac{1}{4}$
HD6/S	3	$11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HD6F/S	I 2 I	$10\frac{1}{4} \times 8\frac{1}{8}$ $11\frac{3}{8} \times 9\frac{1}{4}$ $10\frac{5}{8} \times 9\frac{1}{4}$
HD ₅ /S	3	$11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD ₅ F/S	I 2 I	$10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD1/S	2 I I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HD ₂ F/S	2 I I 2 2	$ \begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 18\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array} $

TYPE	NO.	CIZEC
TYPE	OFF	SIZES
HD2/S	2	$10\frac{3}{4} \times 17\frac{1}{8}$
The state of	I	$11\frac{3}{8} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 18\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HD ₄ F/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
HD ₄ /S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 18\frac{1}{4}$
	3	$10\frac{5}{8} \times 18\frac{1}{4}$
HD11F/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	I	$10\frac{1}{4} \times 17\frac{1}{8}$
1-1	2	$11\frac{3}{8} \times 9\frac{3}{4}$
	2	$11\frac{3}{8} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HD11/S	4	$10\frac{3}{4} \times 17\frac{1}{8}$
	2	$11\frac{3}{8} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 38\frac{1}{4}$
	I	$10\frac{5}{8} \times 38\frac{1}{4}$
	2	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV6/S	4	$11\frac{3}{8} \times 9\frac{1}{4}$
	I	$10\frac{5}{8} \times 9\frac{1}{4}$
HDV6F/S	I	10½ × 8½
	3	$11\frac{3}{8} \times 9\frac{1}{4}$
	I	$10\frac{5}{8} \times 9\frac{1}{4}$
HDV ₅ /S	4	$11\frac{3}{8} \times 18\frac{1}{4}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₅ F/S	I	$10\frac{1}{4} \times 17\frac{1}{8}$
	3	$11\frac{3}{8} \times 18\frac{1}{4}$
	I	$10\frac{5}{8} \times 18\frac{1}{4}$

ТҮРЕ	NO. OFF	SIZES
HDV1/S	2 2 I	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV ₂ F/S	2 2 1 3 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV2/S	2 2 4 2	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV4F/S	4 4 1 3 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $10\frac{1}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV4/S	4 4 4 3	$10\frac{3}{4} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 17\frac{1}{8}$ $11\frac{3}{8} \times 18\frac{1}{4}$ $10\frac{5}{8} \times 18\frac{1}{4}$
HDV11F/S	4 4 1 2 3 1	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 10\frac{1}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 9\frac{3}{4} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HDV11/S	4 4 4 1 2	$\begin{array}{c} 10\frac{3}{4} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 17\frac{1}{8} \\ 11\frac{3}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 38\frac{1}{4} \\ 10\frac{5}{8} \times 18\frac{1}{4} \end{array}$
HLı	2	10½ × 16½

GHTS

-	SIZES		
	113 × 181		
	113 × 91		

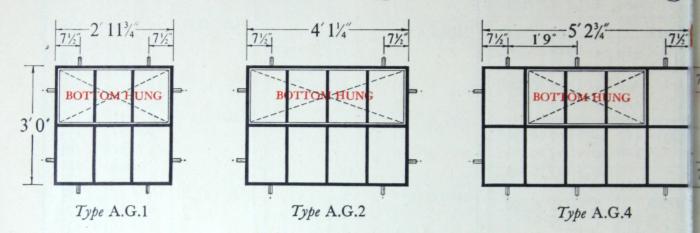
FANLIGHTS

TYPE	NO. OFF	SIZES
NG25	2	$9\frac{3}{4} \times 21\frac{1}{8}$
NG25F	I	$8\frac{5}{8} \times 20$ $9\frac{3}{4} \times 21\frac{1}{8}$
NG15	I	$9\frac{3}{4} \times 28\frac{1}{4}$
NG15F	I	$8\frac{5}{8} \times 27\frac{1}{8}$
NG8	2	$9\frac{3}{4} \times 18\frac{1}{4}$

ТҮРЕ	NO. OFF	SIZES
NG2	I	$8\frac{5}{8} \times 17\frac{1}{8}$ $9\frac{3}{4} \times 18\frac{1}{4}$
NO-	I	
NG ₅	I	$9\frac{3}{4} \times 18\frac{1}{4}$
NGI	I	85 × 171
NG6	I	$9\frac{3}{4} \times 9\frac{1}{4}$

14 Standard · HOPE'S Agricul

HOPE'S Standard Steel Windows for Cowhouses & Other Agricultural Building.



Centres of holes are given for fixing to concrete Slotted lugs, adjustable to brick courses, are supplied unless otherwise ordered

HOPE'S Agricultural Windows are made in three Standard Types and Sizes as illustrated above. They are prepared for inside putty glazing with a flanged frame bar all round.

Ventilators are Bottom Hung on corner hinges and are fitted with steel side cheeks with a quick-release lever to enable the ventilator to be folded right down for maximum ventilation or cleaning.

Spring Catches for hand or pole operation are fitted to all ventilators. Holes are drilled for glazing and spring wire glazing clips will be supplied when ordered. Special metal sash putty should be used.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Handling, fixing and glazing instructions are sent with each consignment.

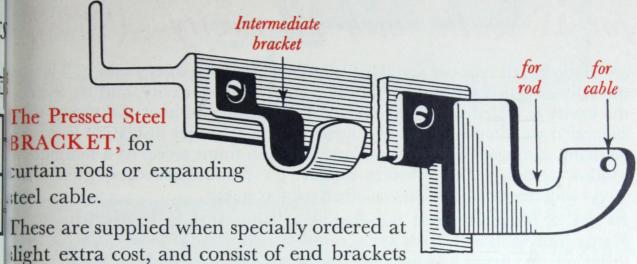
GLASS SIZES (CLEARANCE ALLOWED)

TYPE	NO. OFF	SIZES
A.G.1	2	$15\frac{1}{2}$ " × $10\frac{1}{2}$ "
	1	$15\frac{1}{2}$ " × $11\frac{1}{8}$ "
	3	$17\frac{1}{8}'' \times 11\frac{1}{8}''$
A.G.2	2	15½" × 11"
	2	$15\frac{1}{2}$ " × $11\frac{1}{2}$ "
	4	$17\frac{1}{8}'' \times 11\frac{1}{2}''$

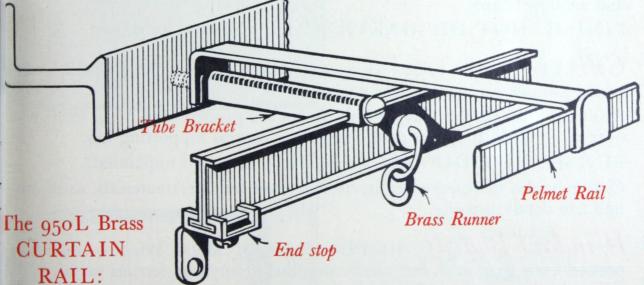
TYPE	NO. OFF	SIZES
A.G.4	3	17½" × 11"
	2	$17\frac{1}{8}$ " × $12\frac{7}{8}$ "
	2	$16\frac{5}{8}$ " × $12\frac{7}{8}$ "
	2	$15\frac{1}{2}$ " × $10\frac{1}{2}$ "
	1	15½" × 11"

AIN FITTINGS

HOPE'S Curtain Fittings are of two kinds:



in pairs) with intermediate brackets for windows over 1' 8" wide. They are rustproofed and can be fixed to the windows in the manner shown above, with $\frac{3}{16}$ " × $\frac{3}{16}$ " round head whitworth screws.

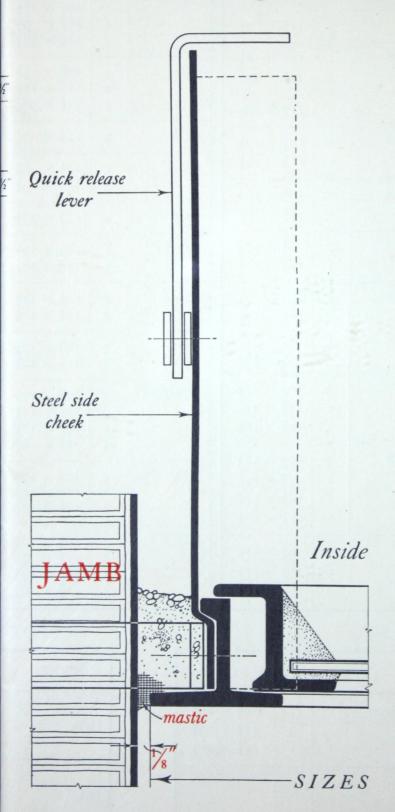


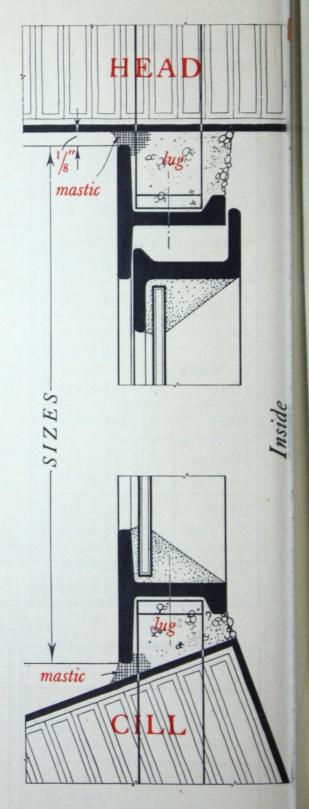
llustrated above can be obtained from most good ironmongers or puilders' merchants complete with special fixing screws and tube prackets for use with Hope's Windows. Pelmet rails and brackets an also be provided where specially ordered.

This curtain rail is easily fixed to the tapped holes in Hope's Windows, und can be obtained either in straight lengths or to fit round bays. In case of difficulty in obtaining supplies please apply to us.

tural Windows · Galvanized

FULL SIZE DETAILS Showing Fixing to Brickwork

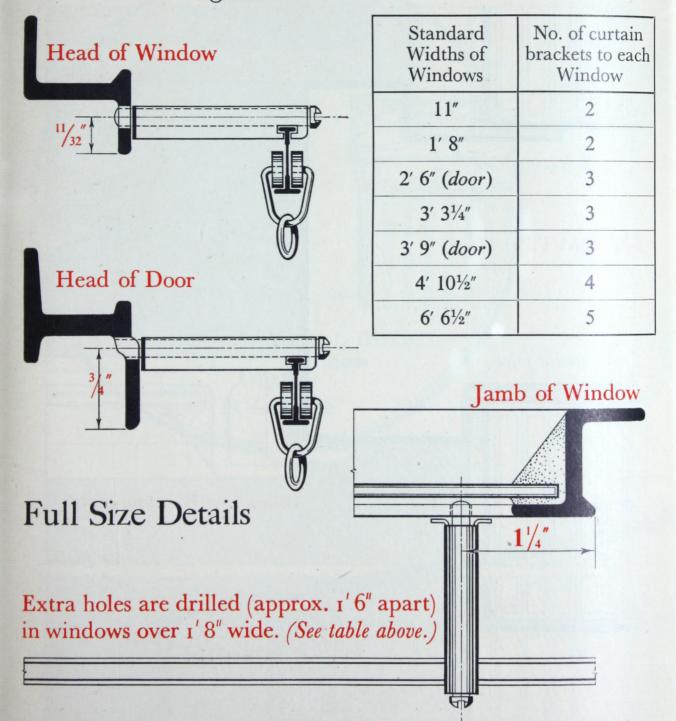




HOPE'S CURTA

All HOPE'S Standard Windows & Doors are prepared for curtain brackets before despatch.

Holes are drilled and tapped in the head of the frame at centres given below, and are suitable for most types of curtain fittings.



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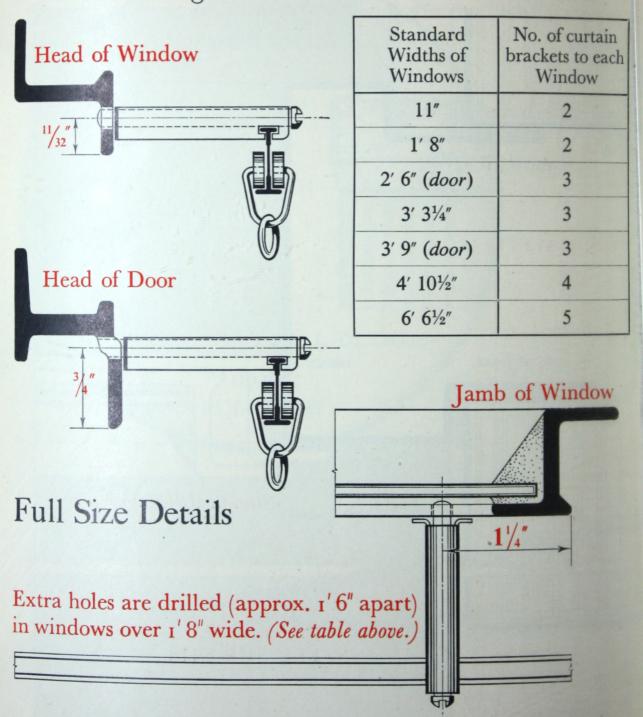
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HOPE'S CURIN

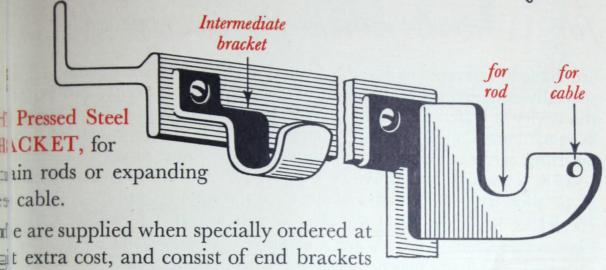
1)PI

All HOPE'S Standard Windows & Door are prepared for curtain brackets before despatch

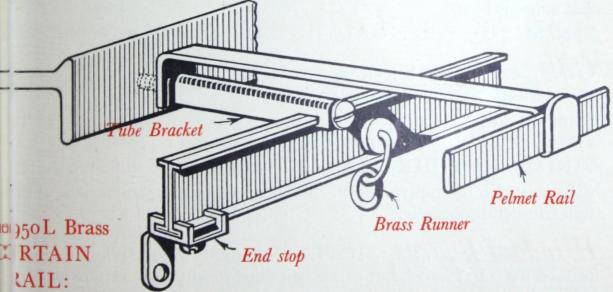
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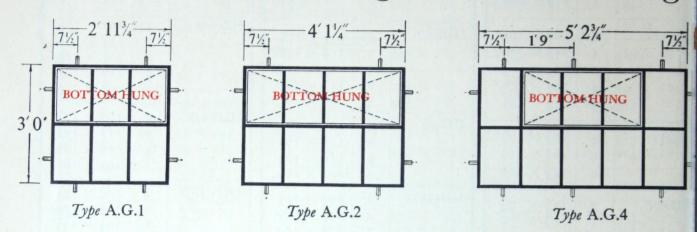
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Die of difficulty in obtaining supplies please apply to us.

14 Standard · HOPE'S Agricul

HOPE'S Standard Steel Windows for Cowhouses & Other Agricultural Buildings



Centres of holes are given for fixing to concrete Slotted lugs, adjustable to brick courses, are supplied unless otherwise ordered

HOPE'S Agricultural Windows are made in three Standard Types and Sizes as illustrated above. They are prepared for inside putty glazing with a flanged frame bar all round.

Ventilators are Bottom Hung on corner hinges and are fitted with steel side cheeks with a quick-release lever to enable the ventilator to be folded right down for maximum ventilation or cleaning.

Spring Catches for hand or pole operation are fitted to all ventilators. Holes are drilled for glazing and spring wire glazing clips will be supplied when ordered. Special metal sash putty should be used.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Handling, fixing and glazing instructions are sent with each consignment.

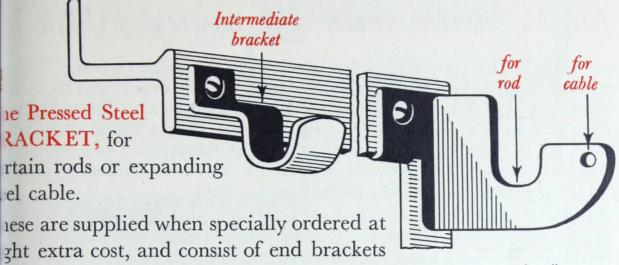
GLASS SIZES (CLEARANCE ALLOWED)

TYPE	NO. OFF	SIZES
A.G.1	2	$15\frac{1}{2}$ " × $10\frac{1}{2}$ "
Taken Sa	1	$15\frac{1}{2}$ " × $11\frac{1}{8}$ "
	3	$17\frac{1}{8}'' \times 11\frac{1}{8}''$
A.G.2	2	15½" × 11"
	2	$15\frac{1}{2}$ " × $11\frac{1}{2}$ "
	4	$17\frac{1}{8}'' \times 11\frac{1}{2}''$

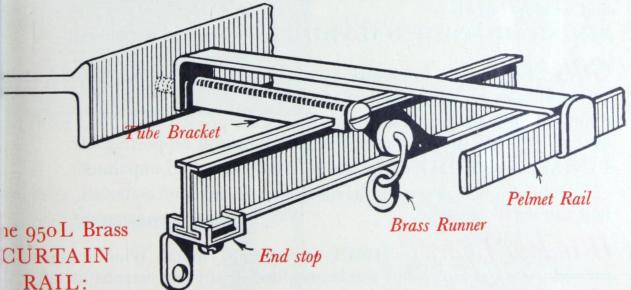
ТҮРЕ	NO. OFF	SIZES
A.G.4	3	17½" × 11"
	2	17½" × 12½"
	2	$16\frac{5}{8}$ " × $12\frac{7}{8}$ "
	2	$15\frac{1}{2}$ " × $10\frac{1}{2}$ "
	1	15½" × 11"

IN FITTINGS

OPE'S Curtain Fittings are of two kinds:



pairs) with intermediate brackets for windows over 1' 8" wide. new are rustproofed and can be fixed to the windows in the manr shown above, with $\frac{3}{16}$ " × $\frac{3}{16}$ " round head whitworth screws.



ustrated above can be obtained from most good ironmongers or ilders' merchants complete with special fixing screws and tube ackets for use with Hope's Windows. Pelmet rails and brackets n also be provided where specially ordered.

d can be obtained either in straight lengths or to fit round bays. case of difficulty in obtaining supplies please apply to us.

HOPE'S Standard Steel Sub-frame. for 11" walls with 2\(\frac{1}{2}\)" cavity (\frac{Patent No.}{429359/39})

are made for all types of Standard Windows listed on pages 2 and 3. They are specially designed for building into 11" walls with $2\frac{1}{2}$ " cavity, and by their the cavity is sealed all round the window opening without the use of slats, expanded metal or other damp-course materials. Perfect insulation is assured, no damp can reach inside of building. The Sub-frame serves as a template of window openings and provides support for flat brick arches; frames our 3' $3\frac{1}{4}$ " wide require arch bars or other reinforcement.

HOPE'S Standard Steel Sub-frames will not shrink, warp, twist or raplaster and window boards are accommodated without loose beads to cover shrinkage. No fixing lugs or horns—no cutting of brickwork.

Construction HOPE'S 'Cavity' Sub-frames are pressed from 16 g. stell and welded at all four corners. Fixing holes are provided to correspond who those in Standard Metal Windows, and all sub-frames are prepared for sub-c s and window boards.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Cills For straight brickwork openings we supply a Steel Sub-cill, as illitrated full size on the opposite page.

Standard Sub-cills for 'Cavity' Sub-frames are pressed from 10 g. steel; where over 3' 3\frac{1}{4}" wide they are provided with a central supporting lug.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Cills may also be constructed in tiles or other builders' materials, as shown n half size detail opposite.

Window Boards HOPE'S Standard Metal Window Boards are pressed from 16 g. steel, but can be supplied in any non-ferrous metal. Sliding adjustable lugs are provided, and all window boards are prepared for screwing to steel sub-frames.

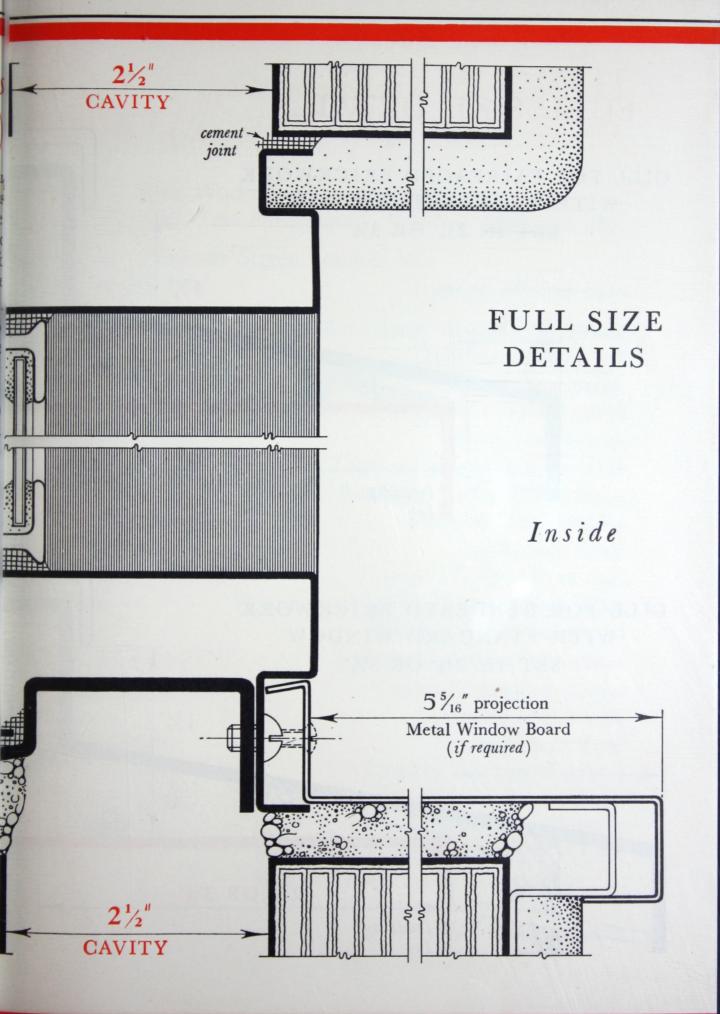
FINISH: painted one coat red oxide paint before despatch.

When Ordering 'Cavity' Sub-frames it is only necessary to include them with the Standard Window as required, thus:

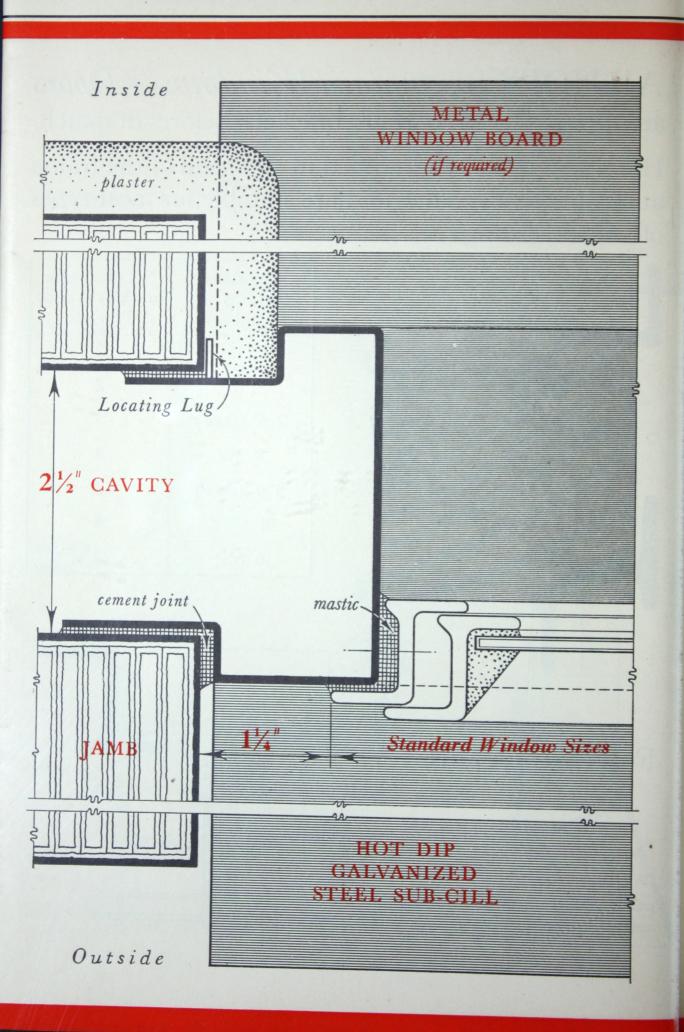
6 (six) ND 11 F with 'Cavity' Sub-frames.

STATE whether Standard Steel Sub-cills and Metal Window Boards realso required.

RAMES (Patent No. 429359/33) 17

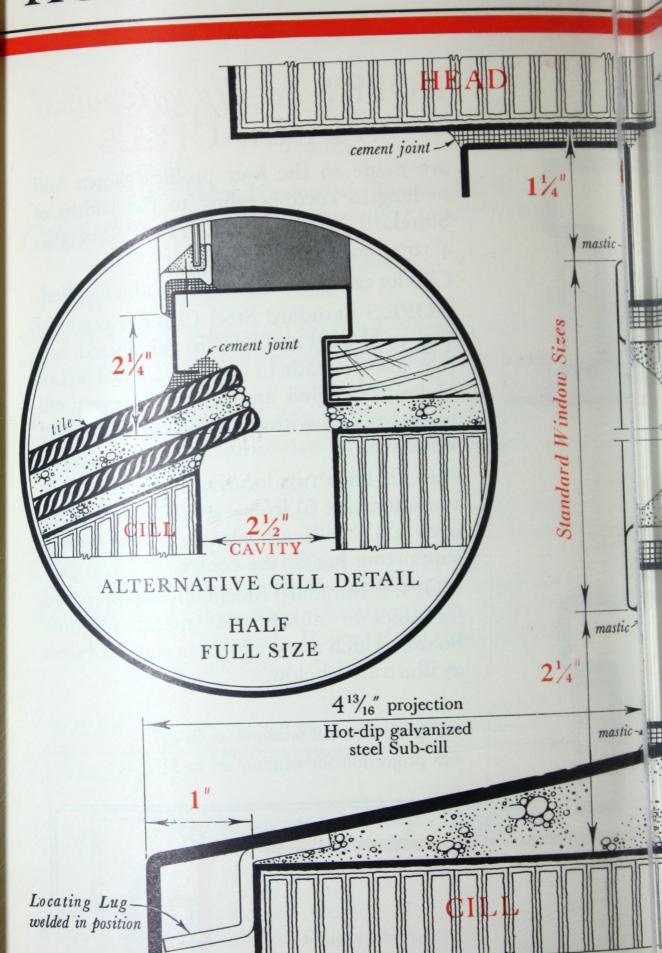


FRAMES (Patent No. 429359/33)

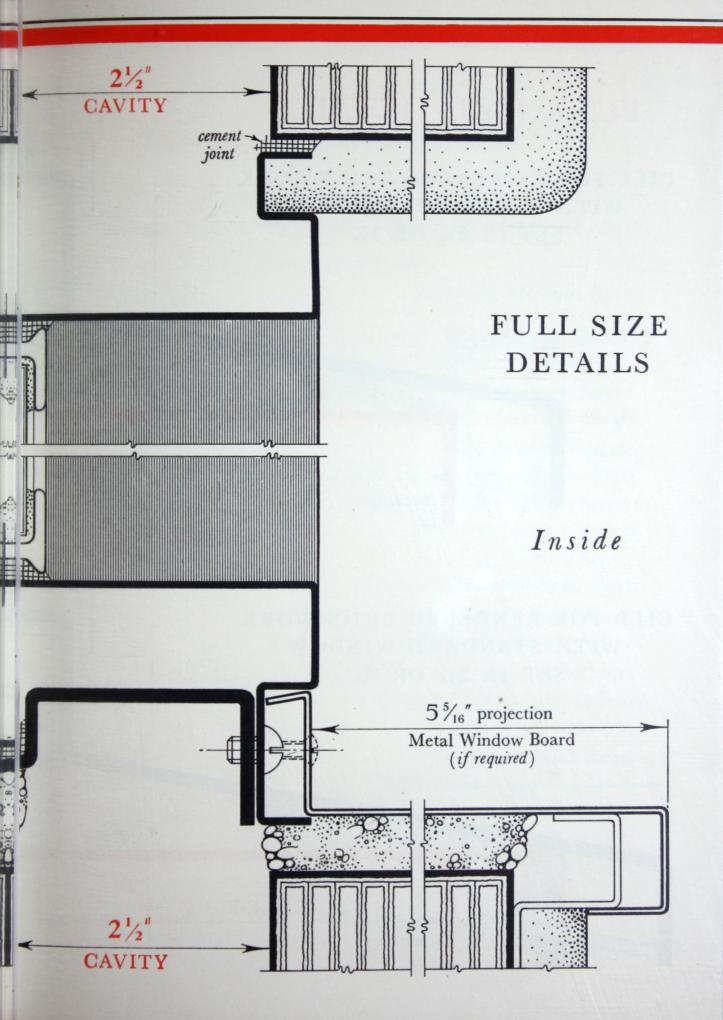


HOPE'S 'CAVITY' SUB-FR





RAMES (Patent No. 429359/33) 17



HOPE'S Standard Steel Sub-frame. for 11" walls with 2\(\frac{1}{2}\)" cavity (\frac{Patent No.}{429359/39})

are made for all types of Standard Windows listed on pages 2 and 3. They are specially designed for building into 11" walls with 2½" cavity, and by their the cavity is sealed all round the window opening without the use of slats, expanded metal or other damp-course materials. Perfect insulation is assure, no damp can reach inside of building. The Sub-frame serves as a template 1" window openings and provides support for flat brick arches; frames over 3' 3¼" wide require arch bars or other reinforcement.

HOPE'S Standard Steel Sub-frames will not shrink, warp, twist or rule Plaster and window boards are accommodated without loose beads to covershrinkage. No fixing lugs or horns—no cutting of brickwork.

Construction HOPE'S 'Cavity' Sub-frames are pressed from 16 g. stell and welded at all four corners. Fixing holes are provided to correspond was those in Standard Metal Windows, and all sub-frames are prepared for sub-c standard window boards.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Cills For straight brickwork openings we supply a Steel Sub-cill, as illutrated full size on the opposite page.

Standard Sub-cills for 'Cavity' Sub-frames are pressed from 10 g. steel; where over 3' 3\frac{1}{4}" wide they are provided with a central supporting lug.

FINISH: HOT-DIP GALVANIZED, delivered unpainted.

Cills may also be constructed in tiles or other builders' materials, as shown in half size detail opposite.

Window Boards HOPE'S Standard Metal Window Boards are pressed from 16 g. steel, but can be supplied in any non-ferrous metal. Sliding adjustable lugs are provided, and all window boards are prepared for screwing to steel sub-frames.

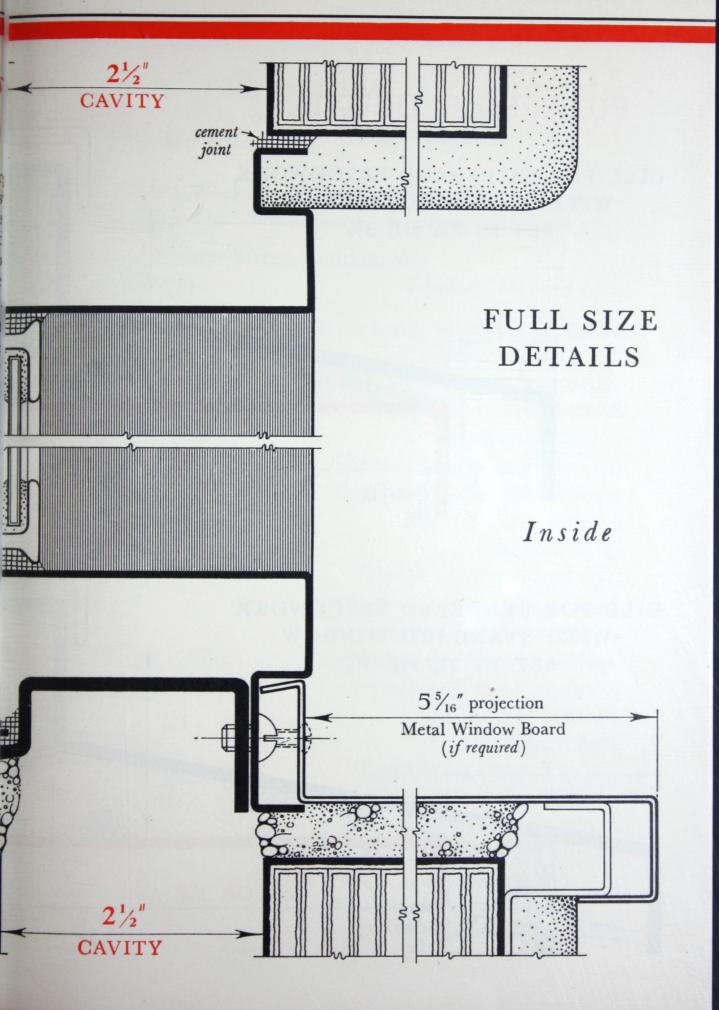
FINISH: painted one coat red oxide paint before despatch.

When Ordering 'Cavity' Sub-frames it is only necessary to inclue them with the Standard Window as required, thus:

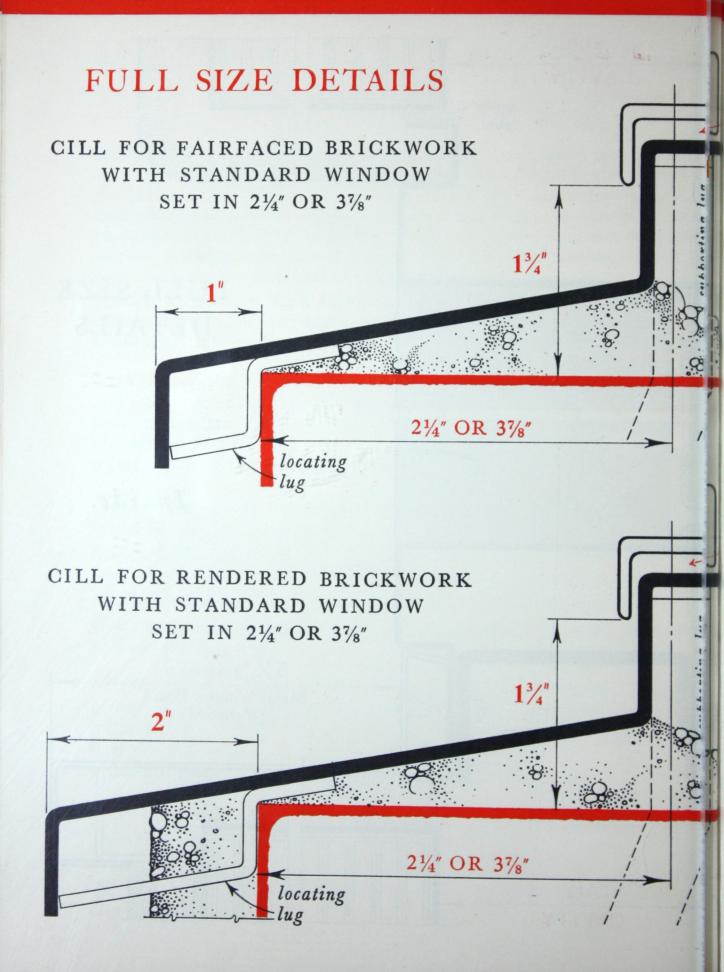
6 (six) ND 11 F with 'Cavity' Sub-frames.

STATE whether Standard Steel Sub-cills and Metal Window Boards : e also required.

RAMES (Patent No. 429359/33) 17



18 Standard · HOPE'S W



NDOWS · Galvanized 19

Branch Offices & Representatives

Head Office: Halford Works, Smethwick, Birmingham, 40

Telegrams: Conservatory Telex Birmingham. Telephone: SMEthwick 0891

London Office: 17 Berners Street, London, W.1

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3RISTOL Holly Cottage, Butts Batch, Wrington, nr. Bristol

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49 Rodney Street

Telephone: Liverpool Royal 1594

Westminster Bank Chambers, 3 York Street

Telephone: DEAnsgate 3991-2

7 Matlock Gardens, Westerhope

'Oaklands', Honiton, Devon

Telephone: Honiton 279

76-79 St. Mary's Road

Telephone: Southampton 3141-4

70 Exchange Buildings

Telephone: Swansea 55530

Messrs. Smith and Pearson (Belfast) Ltd.,

Scottish Temperance Buildings, 16 Donegall Square South

Telephone: Belfast 22687

INDOWS · Galvanized

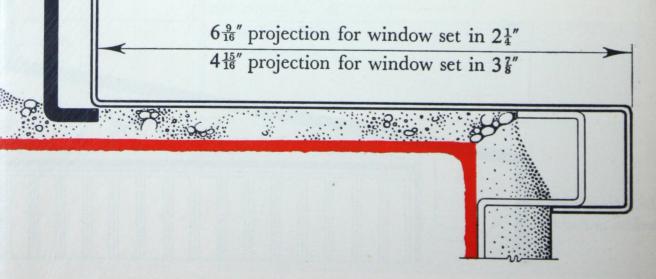
HOPE'S hot-dip galvanized STEEL CILLS

are made to the four profiles shown and in lengths corresponding to the widths of Standard Windows, i.e., 11", 1'8", $3'3'_4$ ", $4'10'_2$ " and $66'_2$ ".

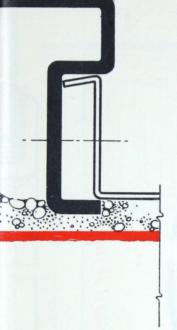
Cills for composite windows are also supplied. HOPE'S Standard Steel Cills are made in 10g. mild steel and hot-dip galvanized, but may also be made in any non-ferrous metal. Holes are drilled and tapped in every cill to correspond with fixing holes in Standard Windows.

All cills have two locating lugs, welded to the underside 6'' from each end, and when over $3'3^{1/4}$ cills are also provided with a supporting lug in the centre.

HOPE'S Standard Steel Cills are prepared for steel or non-ferrous metal Window Boards, which are available in standard sizes as illustrated below.







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Standard · HOPE'S WIN

HOPE'S Products

Casement

Metal Windows in Bronze or Galvanized Steel for buildings where quality is of firstclass importance. Bronze Ships' Windows.

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Standard Window

Galvanized Standard Windows for domestic and agricultural buildings.

Lok'd Bar Sash

Galvanized Lok'd Bar Sashes in Standard or special sizes for all Industrial Buildings.

Pressed Metal Pressed Steel Door Frames. Galvanized 'Cavity' sub-frames for Standard Windows in cavity walls.

Steel Lavatory Cubicles in Standard Units.

Pressed metal fascia, mullions, cills, window-boards etc. Hollow Metal Doors in all types

and sizes.

Patent Glazing

Patent Glass Roofing, Skylights, Lantern Lights and Domes.

Gear

Window Opening Gear. Tension Rod Gear, electrically or hand controlled.

Hardware

Door and Window Hardware. Lead and Cast Iron Rainwater Goods.

Standard · HOPE'S WIN

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Casement

Metal Windows in Bronze or Galvanized Steel for buildings where quality is of firstclass importance. Bronze Ships' Windows.

Telegro

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BRIS

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Standard Window

Galvanized Standard Windows for domestic and agricultural buildings.

Lok'd Bar Sash Galvanized Lok'd Bar Sashes in Standard or special sizes for all Industrial Buildings.

Pressed Metal Pressed Steel Door Frames. Galvanized 'Cavity' sub-frames for Standard Windows in cavity walls.

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Door and Window Hardware. Lead and Cast Iron Rainwater Goods.

DOWS · Galvanized 19

Granch Offices & Representatives

Office: Halford Works, Smethwick, Birmingham, 40

ela ams: Conservatory Telex Birmingham. Telephone: SMEthwick 0891

on Office: 17 Berners Street, London, W.1

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EHOS

WRPOOL

A CHESTER

THAMPTON

VINSEA

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YMOUTH and EXETER

rela ams: Buntline Rath Telephone: MUSeum 8412

Holly Cottage, Butts Batch, Wrington, nr. Bristol

Telephone: Wrington 348

All BRIDGE 44a Sidney Street

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49 Rodney Street

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E' CASTLE-ON-TYNE 7 Matlock Gardens, Westerhope

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NDOWS · Galvanized

HOPE'S hot-dip galvanized STEEL CILLS

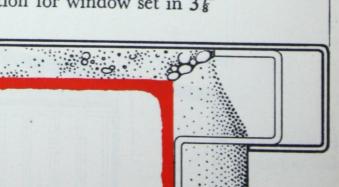
are made to the four profiles shown and in lengths corresponding to the widths of Standard Windows, i.e., 11'', 1'8'', $3'3'/_4''$, $4'10'/_2''$ and $66'/_2''$.

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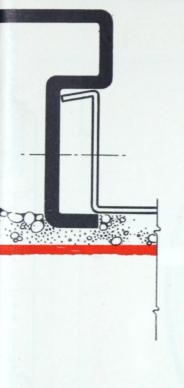
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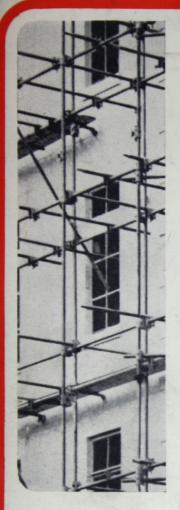
 $\frac{6\frac{9}{16}"}{4\frac{15}{16}"}$ projection for window set in $2\frac{1}{4}$ "



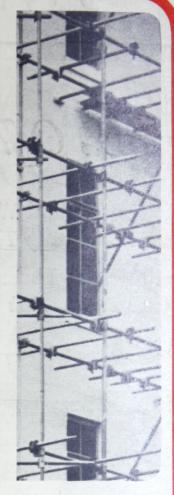
Mastic



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HENRY HOPE & SONS LTD

SMETHWICK, BIRMINGHAM, 40

Telephone: SMEthwick 0891

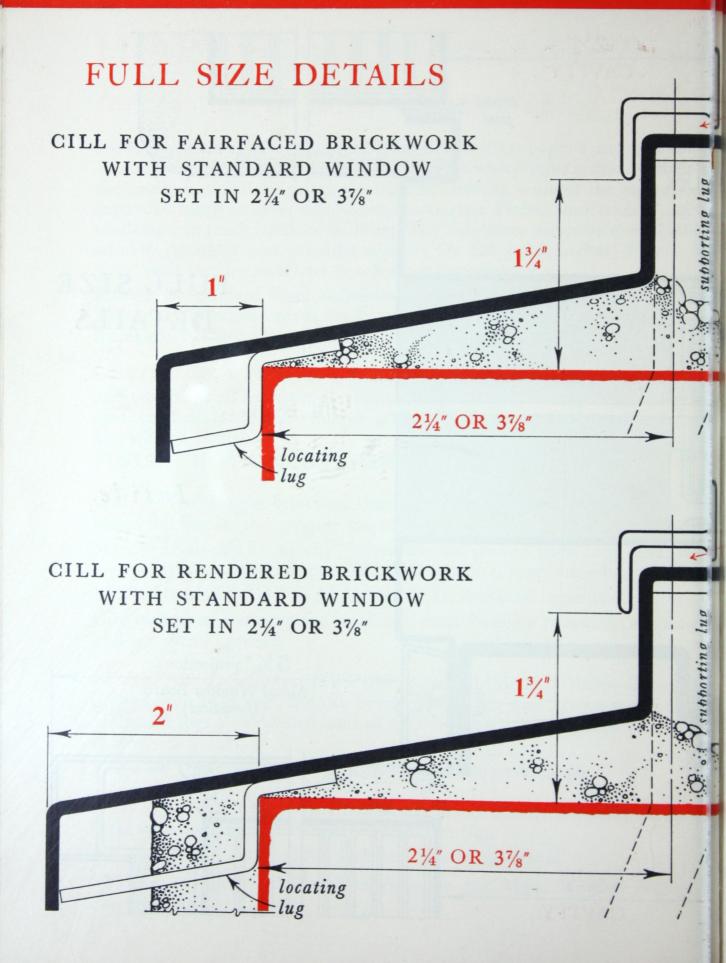
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18 Standard · HOPE'S W



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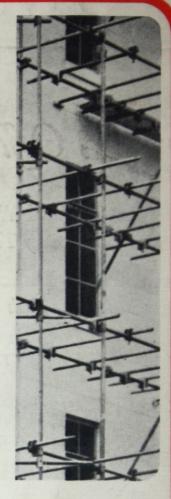
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